

FM/AM RECEIVER

KR-A4060/A5060

SERVICE MANUAL

KENWOOD

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B51-4945-00 (K)3891

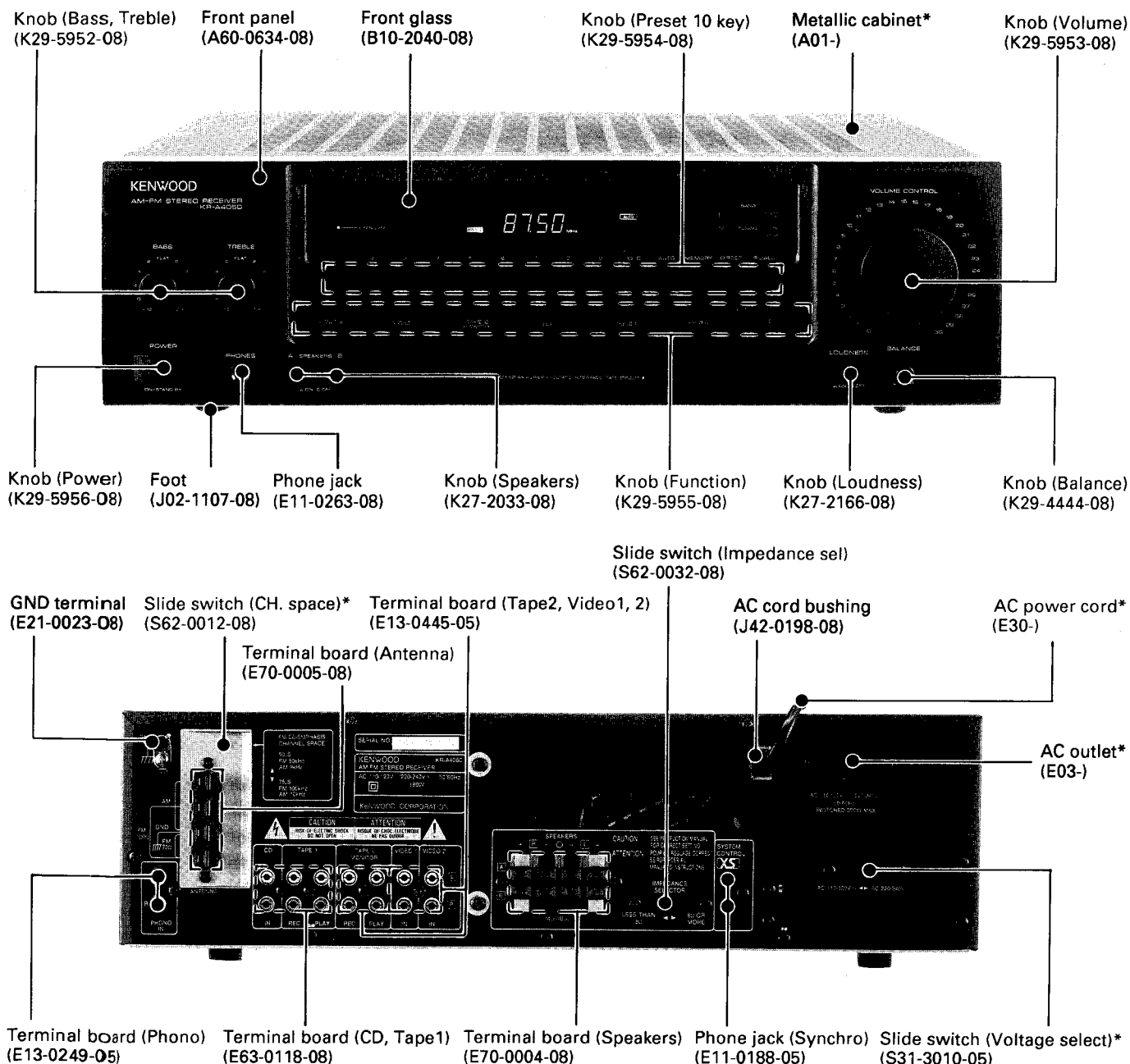


Photo is KR-A4060 (M type).

*Refer to parts list on page 35.

KR-A4060/A5060

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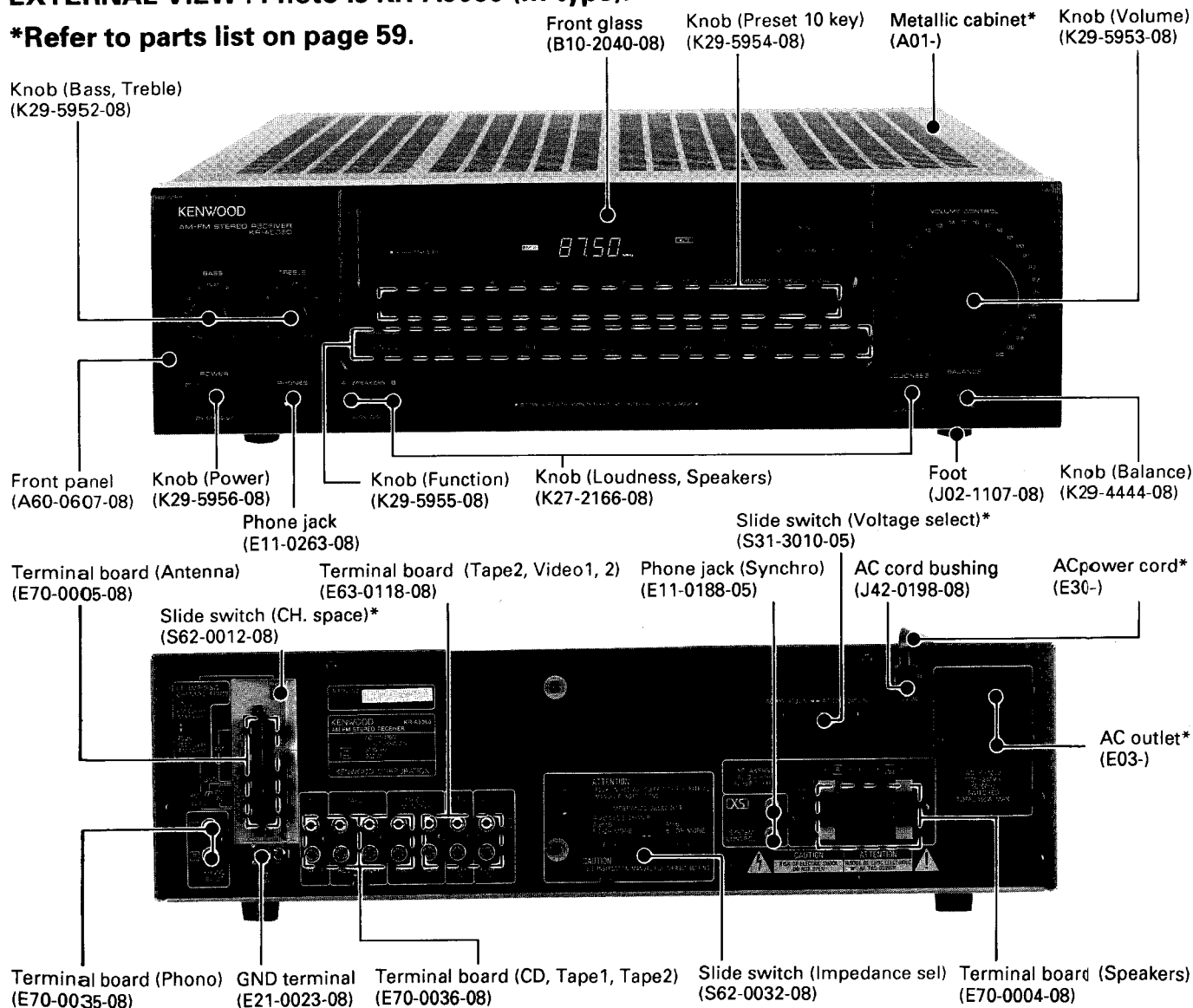
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EXTERNAL VIEW : Photo is KR-A5060 (M type).

*Refer to parts list on page 59.



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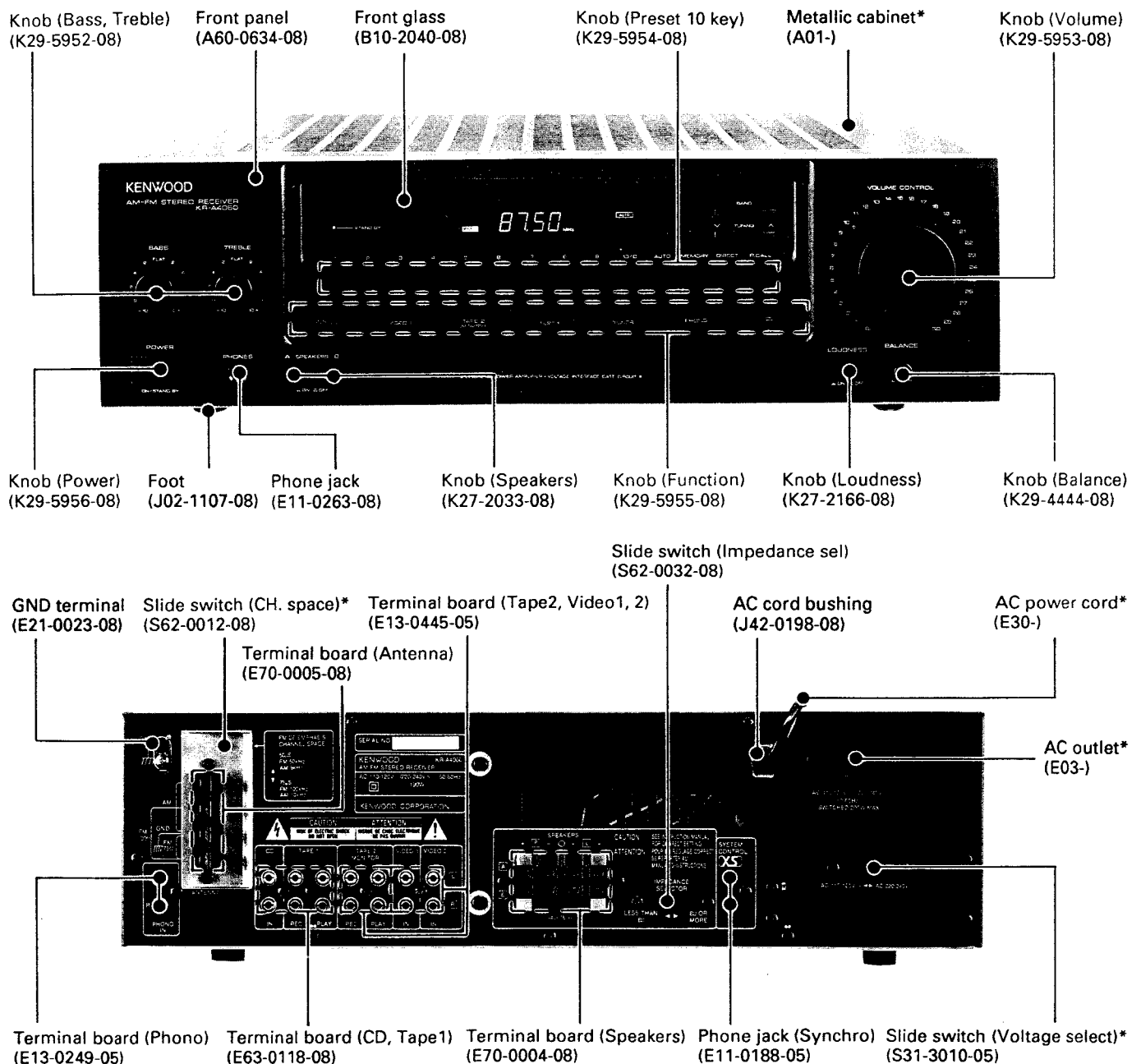
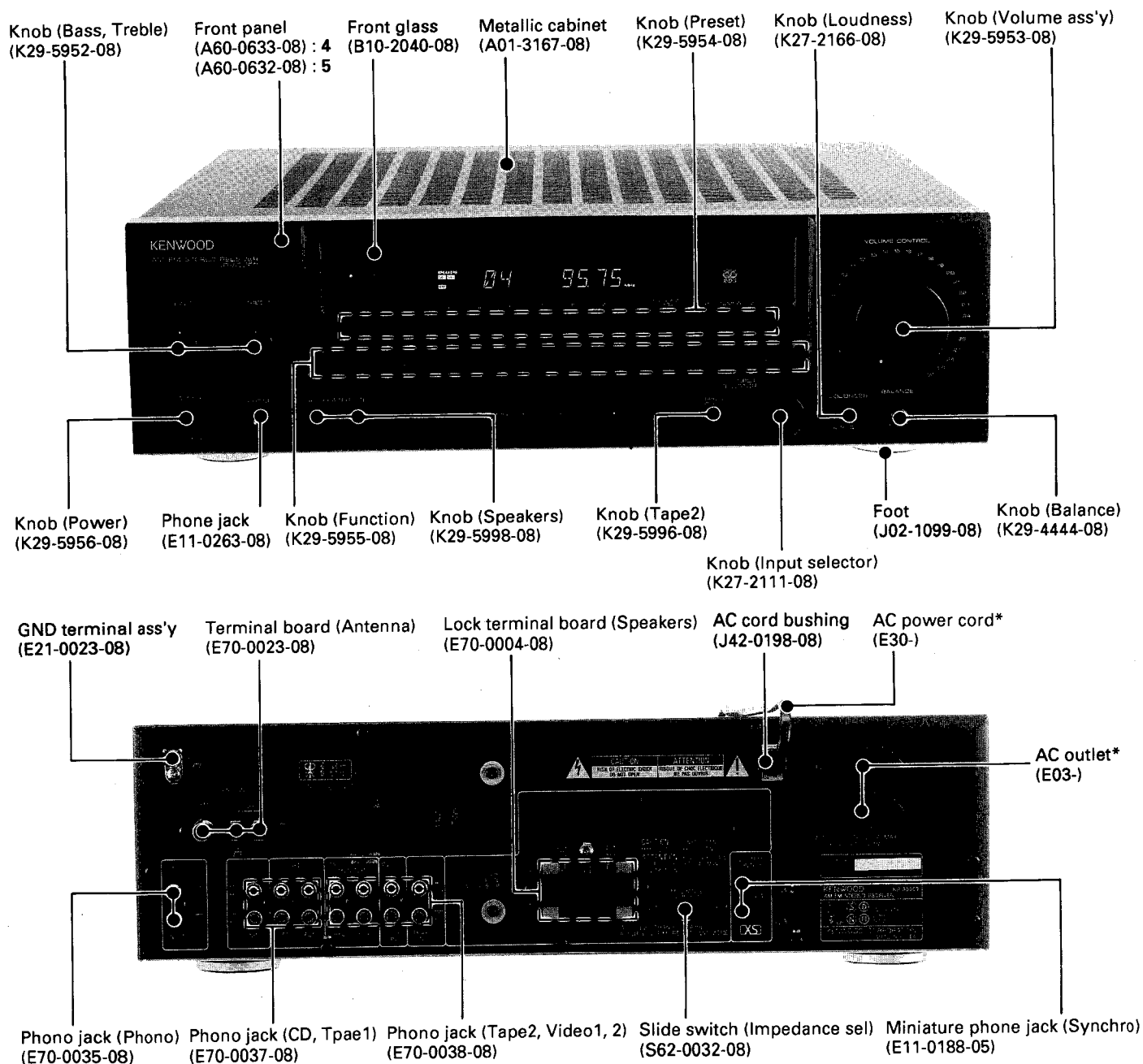


Photo is KR-A4060 (M type).

*Refer to parts list on page 35.

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EXTERNAL VIEW : KR-A5060



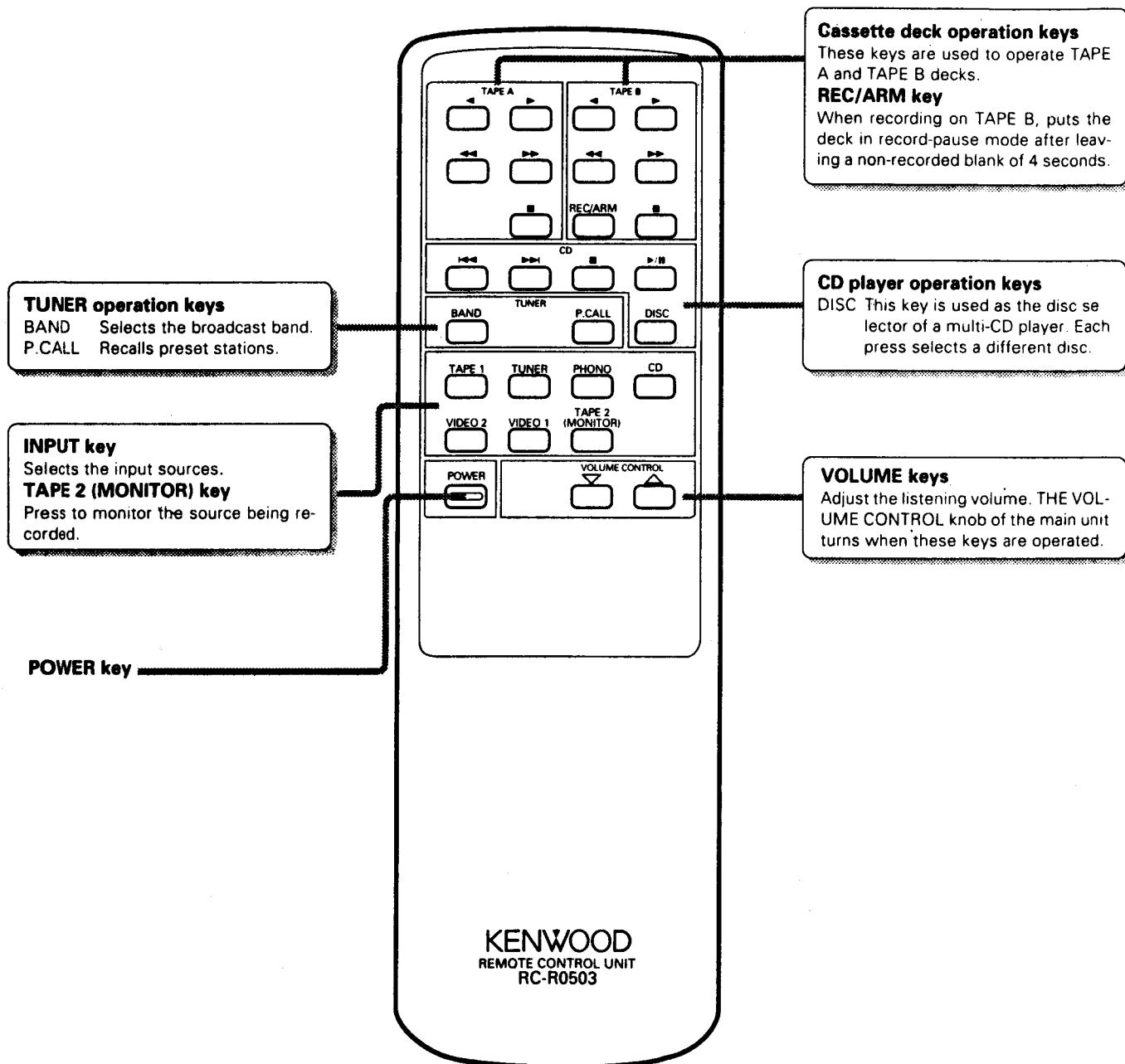
4 : KR-A4060
5 : KR-A5060

Photo

*Refer to parts list on page 83.

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REMOTE CONTROL OPERATION

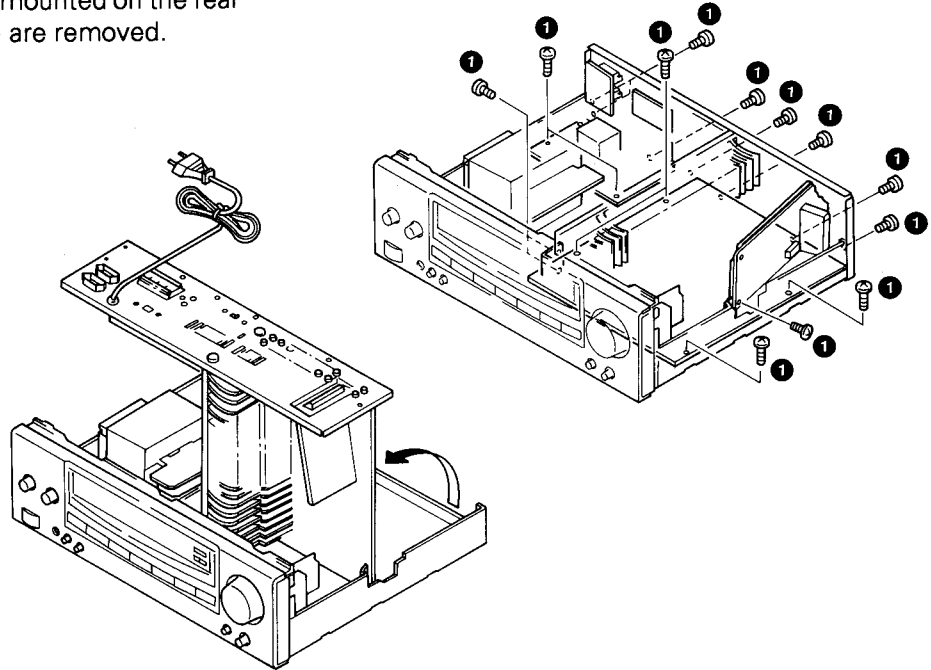


Model: RC-R0503
Infrared ray system

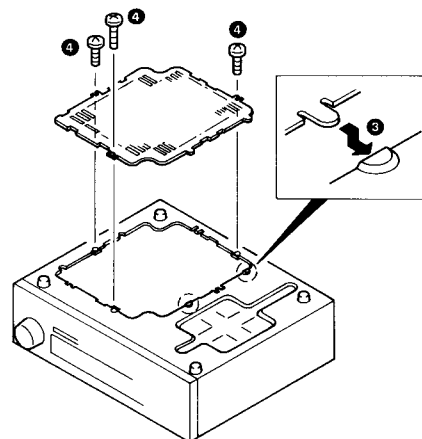
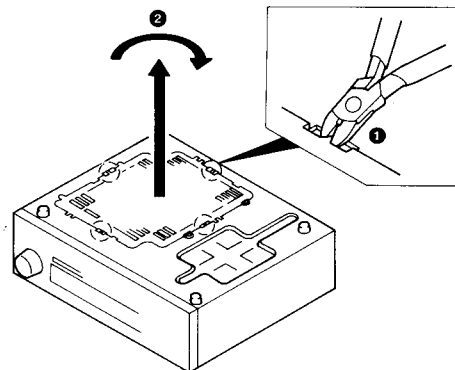
KR-A4060/A5060

DISASSEMBLY FOR REPAIR

1. Repair can be carried out with the Main (AUDIO) PCB and the power supply PCB mounted on the rear panel when the 17 screws (❶) are removed.



2. Cut the 4 places with a pair of nippers (❶), and remove the bottom panel from chassis.
3. Move the unit holder from the current position to the open mounting position.
4. Rotate the lid, which was cut off, by 180° degrees (❷).
5. Insert the lids in the 2 places of the chassis (❸), and mount them with the 3 screws (❹).



KR-A4060/A5060

CIRCUIT DESCRIPTION

1. Setting

1-1. Initial setting

• Function initial setting

Last channel memory FM : 87.5MHz
 K type AM : 530kHz
 E type AM : 531kHz
 Tuning mode Auto
 Band FM1
 Input selector Tuner
 VIDEO monitor VIDEO 1
 TAPE 2 monitor OFF
 Muting OFF
 Power OFF

Frequency memorized for each PRESET channel when the memory is cleared (Test frequency)

Band type	FM1 (MHz)		FM2 (MHz)		AM (kHz)	
	K	E	K	E	K	E
1ch	87.5	87.5	87.5	87.5	530	531
2ch	89.1	89.1	87.5	87.5	630	630
3ch	90.0	90.0	87.5	87.5	990	990
4ch	92.0	92.0	87.5	87.5	1440	1440
5ch	94.0	94.0	87.5	87.5	1610	1602
6ch	98.0	98.0	87.5	87.5	1700*	531
7ch	100.1	100.1	87.5	87.5	530	531
8ch	102.0	102.0	87.5	87.5	530	531
9ch	106.0	106.0	87.5	87.5	530	531
10ch	108.0	108.0	87.5	87.5	530	531

*1700kHz is set for WIDE only.

• μ -com output port initial setting

[Any figure in () is a pin number.]

POWER (24) "L"
 MUTE 1 (25) "H"
 MUTE 2 (26) "H"
 VRDOWN (1) "L"
 VRUP (63) "L"

The initial setting is performed in a following event

1. When backup memory data is destroyed when reset is applied to the μ -com.
2. When the power cord is plugged in to the AC wall outlet while pressing the TUNER key.

1-2. Test mode setting

• Method of entering the test mode

While pressing the CD key, plug the power cord to the AC wall outlet. When the test mode is entered, the FL tube display all lights up.

• Method of canceling the test mode

1. Unplug the power cord from the AC wall outlet once.
2. Send the reset signal to the RESET pin or some other means to reset the μ -com.

• Contents of test mode

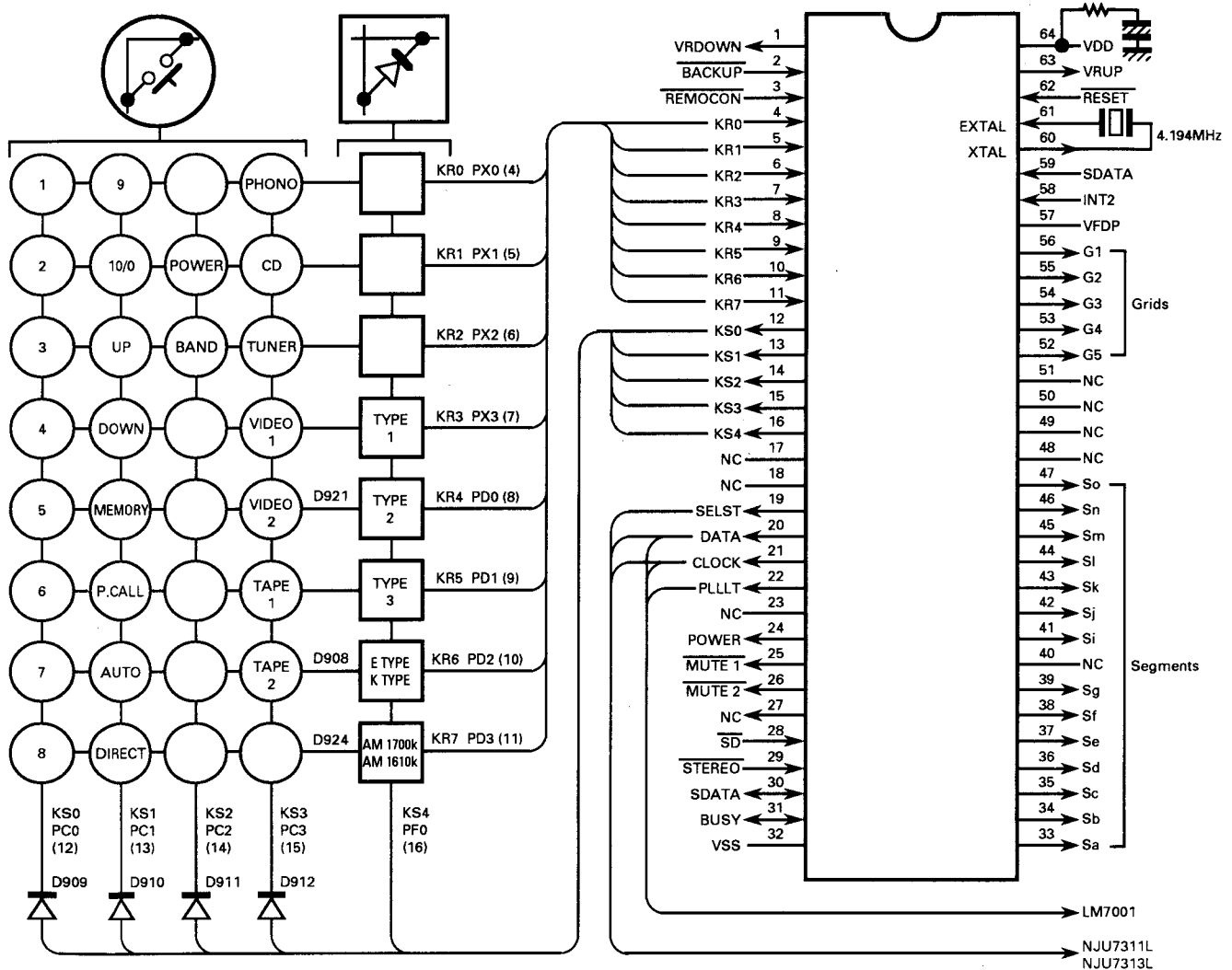
1. When the test mode is entered, the FL tube display all lights up. This all lighting continues unless a effective remote control serial code or the test mode is canceled.
2. The test frequency is stored in memory for each preset channel. (For each frequency to be stored in memory, refer to its associated listing.)
3. The test mode is different from the normal mode in the following operations :
 When the tuner UP or DOWN key is pressed when a mode other than TUNER has been selected, the potentiometer is increased or decreased.
 Once one of these keys has been pressed, the operation continues even if the key is released.
 It stops automatically if the AUTO or POWER key is pressed or if the AUTO or POWER key is not pressed for 16 seconds.

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CIRCUIT DESCRIPTION

2. Receiver μ -com : CXP5016-531S (Front PCB : IC901)

2-1. Key matrix connection diagram



2-2. Setting of destinations, models and specifications depending upon diode key matrix

The setting of destinations, models and specifications is made according to the initial set diode key matrix. In the following, "1" means with diodes and "0" without diodes.

• Model set switch (Type 2 : D921)

Model set switch			MODEL	Function		
Type 1	Type 2	Type 3		TUNER band	VOL.CONT with motor	REMOCON
—	1	0	KR-A4060/A5060	FM1→FM2→AM	Provided	Provided

KR-A4060/A5060

CIRCUIT DESCRIPTION

• Destination set switch : E/K type (D908 to Q903)

Destination set switch	Destination	BAND	Reception frequency band	Channel space	Reference frequency
0	K	FM	87.5~108.0MHz	100kHz	50kHz
		AM	530~1610kHz	10kHz	10kHz
		AM	530~1700kHz	10kHz	10kHz
1	E	FM	87.5~108.0MHz	50kHz	50kHz
		AM	531~1602kHz	9kHz	9kHz

• Specification set switch :

AM 1700k/AM 1610k (D924)

With destination set switch at "0" :

Effective only for K type

Specification set switch	AM reception frequency band
0	530~1610kHz
1	530~1700kHz

2-3. Pin function

No.	Name	I/O	Function
1	VRDOWN	O	Volume down operation control. ("H" : Down, "L" : Normal state)
2	BACKUP	I	Backup (AC outlet OFF) detection. ("H" : Normal state, "L" : AC outlet off)
3	REMOCON	I	Remocon signal input. (Active "L")
4~7	KR0~KR3	I	Key return signal input. ("H" : There is input, "L" : There is not input)
8~11	KR4~KR7		
12~16	KS0~KS4	O	Key scan signal output. Normally high is output. Key scan is performed when key is ON.
17, 18	NC	O	Not used.
19	SELST	O	Data latch signal output to NJU7311L/NJU7313L. Data is latched on the rising edge.
20	DATA	O	LM7001 (PLL IC), NJU7311L/NJU7313L (selector IC) control serial data output. Data is latched on the rising edge of the clock.
21	CLOCK		LM7001, NJU7311L/NJU7313L control serial data transfer shift clock output. Data is latched on the rising edge of the clock.
22	PLLLT	O	CE signal output to LM7001. When the signal is high, LM7001 is enable.
23	NC	-	Not used.
24	POWER	O	Power supply circuit relay ON/OFF control. ("H" : ON, "L" : OFF)
25	MUTE1	O	TAPE 2 REC OUT mute control. ("H" : MUTE OFF, "L" : MUTE ON)
26	MUTE2	O	LINE OUT mute control. ("H" : MUTE OFF, "L" : MUTE ON)
27	NC	O	Not used.
28	SD	I	Tuner tuned detection. ("H" : No signal, "L" : Tuned)
29	STEREO	I	Tuner FM stereo detection. ("H" : MONO, "L" : STEREO)
30	SDATA	I/O	This pin and serial data pin 59 are shorted.
31	BUSY	I/O	Serial busy signal input/output.
32	Vss	-	GND
33~47	Sa~So	O	Fluorescent display segment drive signal output. (Pin 40 muted)
48~51	-	O	Not used.
52~56	G5~G1	O	Fluorescent display digit drive signal output.
57	VFDP	-	Fluorescent display output driver circuit power supply.
58	INT2	I	Not used. This pin and GND are shorted.
59	SDATA	I	This pin and serial data input pin 30 are shorted.
60	XTAL	O	Clock generation circuit output pin.
61	EXTAL	I	Clock generation circuit input pin.
62	RESET	I	Reset signal input.
63	VRUP	O	Volume up operation control. ("H" : UP, "L" : Normal state)
64	VDD	-	+5V power supply.

EXCEPT

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CIRCUIT DESCRIPTION

3. Function description

Features

3-1. AMP

- Seven position selector :
CD, TUNER, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Six audio output terminals :
CD, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Tree output terminals :
TAPE1, TAPE2
- LINE STRAIGHT

- Speaker A/B change-over
- TAPE2 monitor

3-2. TUNER

- 20ch random preset
- Tuning control by IF count
- Direct selection
- RDS function (E, T type only)

4. Conditions according to the destination and model

4-1. AMP

MODEL	DIODE SW		Surround function
	5	4	
KR-V7050	0	0	PRO-LOGIC, 3-STEREO, DSP, DSP-LOGIC
KR-V6050 (Except E, T only)	0	1	PRO-LOGIC, 3-STEREO
KR-A4060/A5060 (E, T only)	1	X	No surround

X : Don't care

4-2. TUNER

Destination	DIODE SW				Band	Receiving Remarks	Channel space	IF	RF	Note
	3	2	1	0						
K1	0	0	0	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	50kHz	
					AM	530kHz~1610kHz	10kHz	+450kHz	10kHz	
K2	0	0	1	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	50kHz	
					AM	530kHz~1700kHz	10kHz	+450kHz	10kHz	
E	0	1	0	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	50kHz	
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	
E	1	1	0	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	50kHz	With RDS
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	

4-3. Diode matrix : Diode switch No.

	Pin No.	55	56	57	58	59	60
Pin No.	Pin name	KR5	KR4	KR3	KR2	KR1	KR0
61	KS7	Channel space	AM 1610/1700	RDS Yes/No	DSP.DOL/DOL only	Surround Yes/No	(X)
Diode switch No.		2	1	3	4	5	0
Diode Ref. No.		D911	-	D910	-	D909	-

- Diode SW 0→
- Diode SW 1→ AM band range/Except E, T type only
0 : AM NARROW
1 : AM WIDE
- Diode SW 2→ Channel base
(Products bound for M : Change-over with switch)
0 : FM 100kHz/step, AM 10kHz/step
1 : FM 50kHz/step, AM 9kHz/step

- Diode SW 3→With/Without RDS/E, T type only
0 : Without RDS
1 : With RDS
- Diode SW 4→Surround mode
0 : Dolby function & DSP function
1 : Dolby function only
- Diode SW 5→With/Without surround
0 : With surround
1 : Without surround

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CIRCUIT DESCRIPTION

5. Initial state

- ① POWER OFF
- ② AMP system
 - Audio selector TUNER
 - Video system selector VIDEO 1
 - Speaker A ON
 - Speaker B OFF
 - TAPE 2 monitor OFF
 - LINE STARIGHT OFF
- ③ TUNER system
 - Band FM
 - Frequency Lower limit of FM (87.5MHz)
 - TUNING mode AUTO TUNING (AUTO STEREO)
 - P.CH indication - -ch
- ④ Test frequency

	K1 type	K2 type	E type
01ch	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
02ch	FM108.00MHz	FM108.00MHz	FM108.00MHz
03ch	AM 630 kHz	AM 630 kHz	AM 630 kHz
04ch	AM 990 kHz	AM 990 kHz	AM 990 kHz
05ch	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz
06ch	AM 1610 kHz	AM 1700 kHz	AM 1602 kHz
07ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
08ch	FM 98.50MHz	FM 98.50MHz	FM 98.50MHz
09ch	AM 530 kHz	AM 530 kHz	AM 531 kHz
10ch	FM 89.10MHz	FM 89.10MHz	FM 89.10MHz
11ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
12ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
13ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
14ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
15ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
16ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
17ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
18ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
19ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
20ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz

Initial setting Insert the AC power cord plug in the electrical outlet while pushing the "POWER" key.

KR-A4060/A5060

CIRCUIT DESCRIPTION

6. Main Unit Test Mode

Setting method

Turn the AC power ON while pushing the "TUNING DOWN" key.

Cancellation method

Turn the AC power OFF.

Contents

① Start of the main unit test mode

The operation gets in the test mode through a main unit key, when the AC power is turned ON while pushing the "TUNING DOWN" key.

Three operations are carried out in this case.

- Automatic power ON
- All fluorescent character display tubes and LED light up.
- Initialization of all states except POWER ON/OFF.
The "All indications lit up" states is cancelled by pushing any key of the main unit.
The states changed during the test mode are initialized when the main unit test mode is cancelled (AC power OFF).

② Automatic motor VR UP/DOWN (AMP)

The operation (16 sec. UP→16 sec. DOWN→STOP) of the motor is carried out when the "TAPE 2" key is operated. Therefore, "TAPE 2 (MONITOR)" can not be changed-over during the main unit test mode.

③ Mute signal output (AMP)

No control of selector MUTE (MUTE1) is carried out.

④ Test mode operation of 0~9, +10 (TUNER)

- a) When the +10 key is not operated, the channels 1~9 (keys 1~9), as well as the channel 10 (key 0), can be called.
- b) When the +10 key is operated once, the channels 11~19 (keys 1~9), as well as the channel 20 (key 0), can be called.
- c) When the +10 key is operated once again, the operation returns to the case "a) When the +10 key is not operated".

⑤ Processing of keys available only in the remote controller

- Processing related to the AMP : None
- Processing related to the TUNER : None

⑥ Cancellation of the main unit test mode

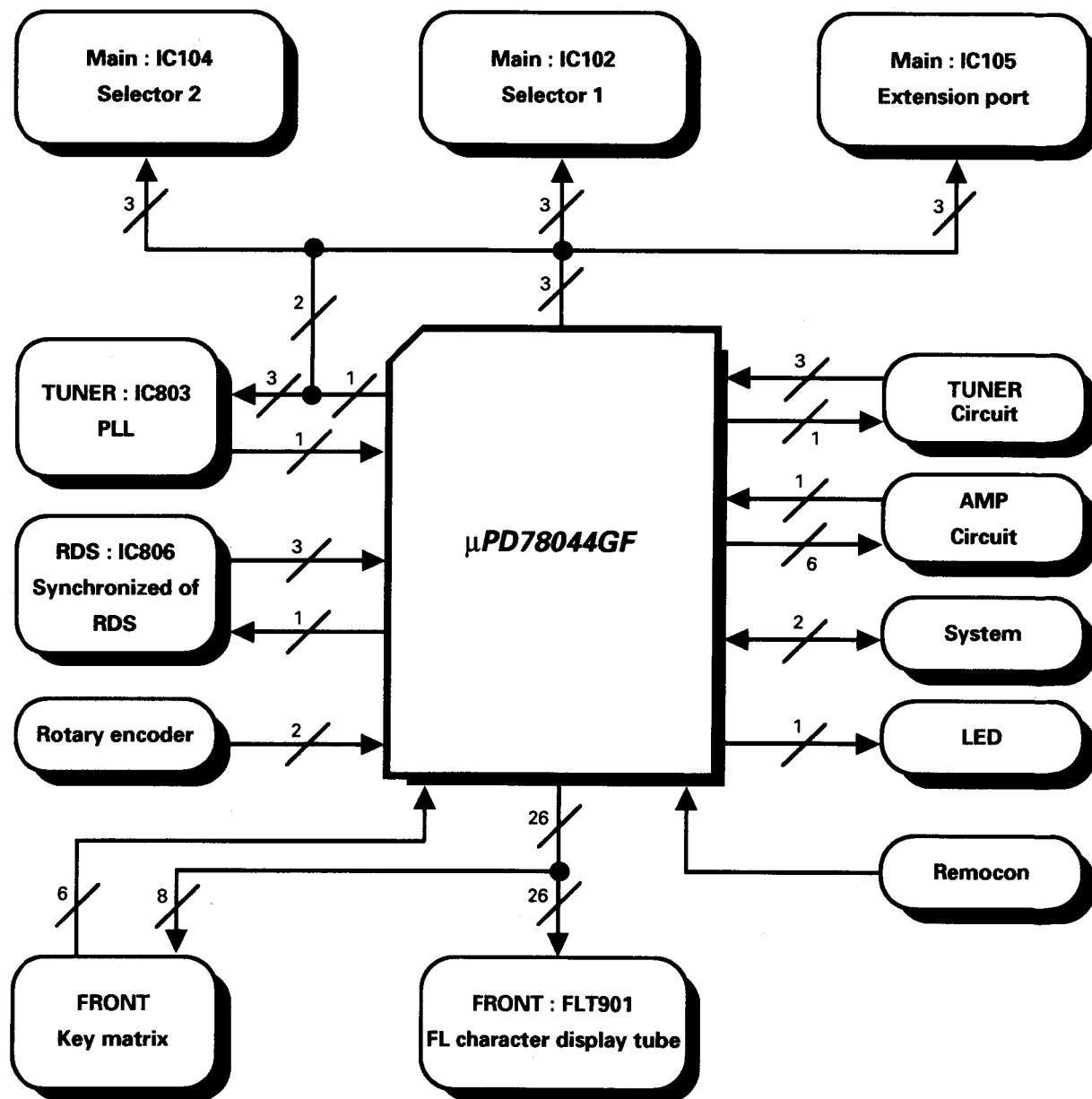
The test mode is cancelled, and the operation returns to the initial state when the AC power is turned OFF during the test mode.

KR-A4060/A5060

CIRCUIT DESCRIPTION

7. μ -com : μ PD78044GF-021 (Front PCB : IC901)

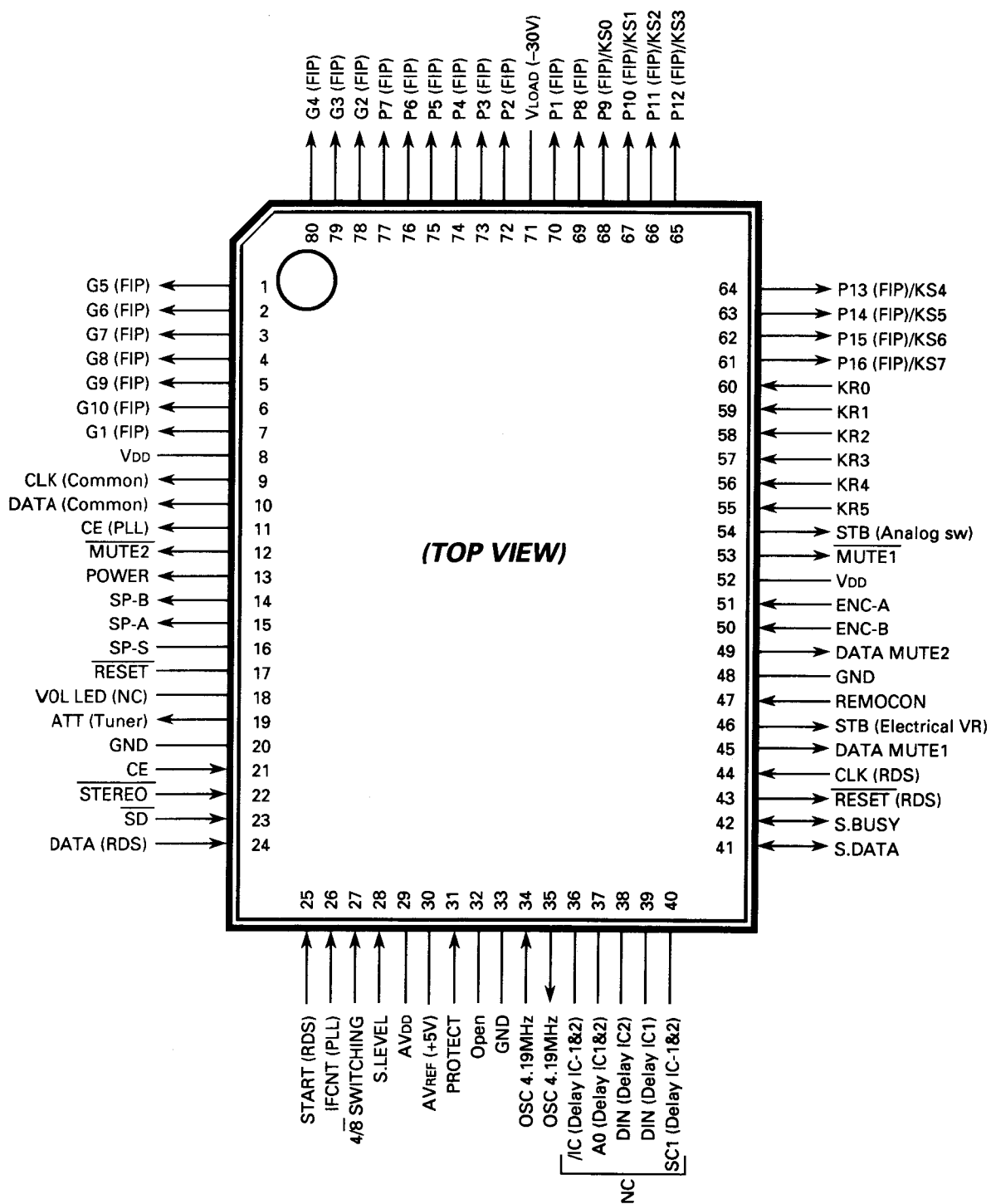
7-1. μ -com periphery block diagram



KR-A4060/A5060

CIRCUIT DESCRIPTION

7-2. Pin connection



KR-A4060/A5060

CIRCUIT DESCRIPTION

7-3. Pin function

No.	Name	I/O	Function
1~6, 7	G5~G10, G1	O	FL grid 5~10, and 1.
8	VDD	-	Power supply.
9	CLK (Common)	O	Clock for control IC. (Analog sw/PLL IC/Electronic VOL)
10	DATA (Common)	O	Data for control IC. (Analog sw/PLL IC/Electronic VOL)
11	CE (PLL)	O	PLL CE.
12	MUTE2	O	Amplifier mute control. ("H" : Mute OFF, "L" : Mute ON)
13	POWER	O	Power relay control. ("H" : Power ON, "L" : Power OFF)
14	SP-B	O	Speaker B relay control. ("H" : SP-B ON, "L" : SP-B OFF)
15	SP-A	O	Speaker A relay control. ("H" : SP-A ON, "L" : SP-A OFF)
16	SP-S	-	Not used (open).
17	RESET	I	μ-com reset.
18	VOL LED	-	Not used (open).
19	ATT (Tuner)	O	Attenuator control ("H" : ATT ON, "L" : ATT OFF)
20	GND	-	A/D power supply.
21	CE	I	μ-com CE.
22	STEREO	I	Stereo signal detection. ("H" : Monaural, "L" : Stereo)
23	SD	I	Tuning signal detection. ("H" : Not tuned, "L" : Tuned)
24	DATA (RDS)	I	RDS data.
25	START (RDS)	I	RDS start bit.
26	IFCNT (PLL)	I	IF CNT data (PLL DO).
27	4/8 SWITCHING	I	Speaker impedance switching. ("H" : 4Ω, "L" : 8Ω)
28	S.LEVEL	I	Signal level (A/D).
29	AVDD	-	A/D power supply.
30	AVREF	-	A/D reference voltage (+5V).
31	PROTECT	I	Protection detection. ("H" : Protection, "L" : Normal)
32	NC	-	Open.
33	Vss	-	GND
34	X1	I	4.19MHz oscillator.
35	X2	O	4.19MHz oscillator.
36	/IC (DELAY IC-1 & 2)	-	Not used.
37	A0 (DELAY IC-1 & 2)	-	Not used.
38	DIN (DELAY IC-1)	-	Not used.
39	DIN (DELAY IC-2)	-	Not used.
40	SC1 (DELAY IC-1 & 2)	-	Not used.
41	S.DATA	I/O	8-bit system data.
42	S. BUSY	I/O	8-bit system busy.
43	RESET (RDS)	O	RDS reset.
44	CLK (RDS)	I	RDS clock.
45	DT MUTE1	O	Data mute 1. ("H" : ON, "L" : OFF)
46	STB (Electrical VOL)	-	Not used.
47	REMOCON	I	Remote controller input.
48	GND	-	
49	DT MUTE2	-	Not used.
50, 51	ENC-B, ENC-A	I	Encoder input. (50 pin : Encoder B, 51 pin : Encoder A)
52	VDD	-	Power supply.
53	MUTE1	O	Selector MUTE control. ("H" : MUTE OFF, "L" : MUTE ON)
54	STB (Analog sw)	O	Analog sw STB.
55~60	KR5~KR0	I	Key return 5~0. (Pin 56 : Not used)
61~68	P16/KS7~P9/KS0	O	FL segment 16~9 / Key scan 7~0.
69, 70	P8, P1	O	FL segment. (69 pin : Segment 8, 70 pin : Segment 1)
71	-30V (VLOAD)	-	FL drive power supply.
72~77	P2~P7	O	FL segment 2~7.
78~80	G2~G4	O	FL grid 2~4.

EXCEPT E,T



KR-A4060

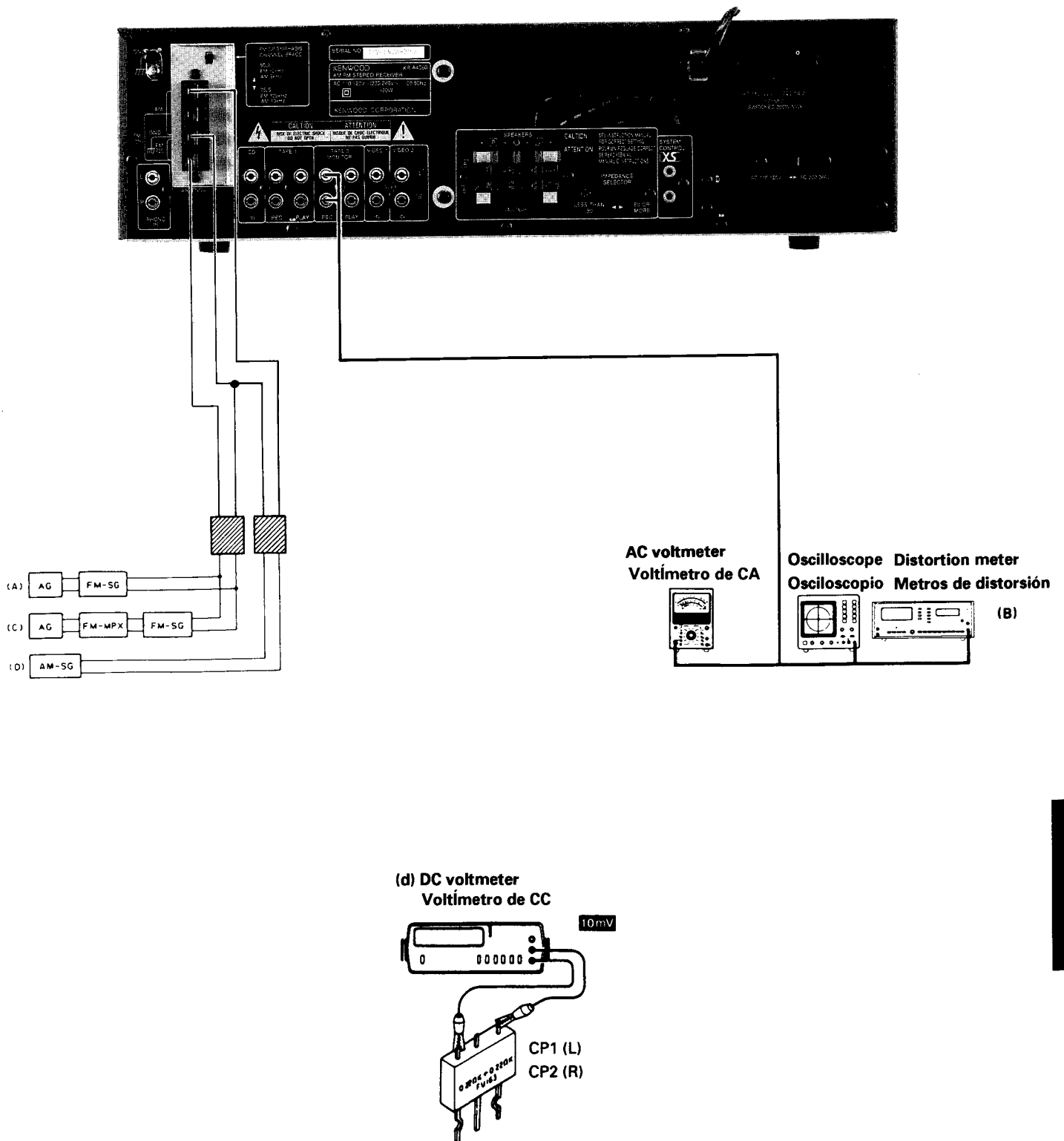
AJUSTES

Sección de AM : Si el punto de alineación es "-", confirme el valor. Si no, reemplace el paquete de entrada.

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
SECCIÓN DE FM SELECTOR : FM							
1	DISCRIMINADOR	(A) 98.0MHz 1kHz, ±75kHz dev. 60dBμ(Entrada de antena)	Conecte un voltímetro de CC entre TP803 y TP804. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dBμ(Entrada de antena)	Conecte un Frecuencímetro entre TP805 y TP806. (UNIDAD DEL SINTONIZADOR)	AUTO 98.0MHz	L802 (UNIDAD DEL SINTONIZADOR)	19.00kHz	(b)
3	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev. Selector : L or R Pilot : ±6.75kHz dev. 60dBμ(Entrada de antena)	(B)	98.0MHz	IFT (W02-)	Distorsión mínima. (L o R)	
4	NIVEL DE SINTONÍA	(A) 98.0MHz 0 dev. 18dBμ(Entrada de antena)	(B)	AUTO o MONO 98.0MHz	VR801 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AM SELECTOR ; AM							
(1)	NIVEL DE SINTONÍA	(D) 1000 (999) kHz 26dBμ(Entrada de antena)	(B)	—	VR804 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AUDIO							
<1>	CORRIENTE EN REPOSO	—	Conecte un voltímetro de CC entre CP1 (L) y CP2 (R) (UNIDAD PRINCIPAL)	Volumen : 0	VR201 (L) VR202 (R) (UNIDAD AUDIO)	10mV	(d)

ADJUSTMENT/AJUSTES

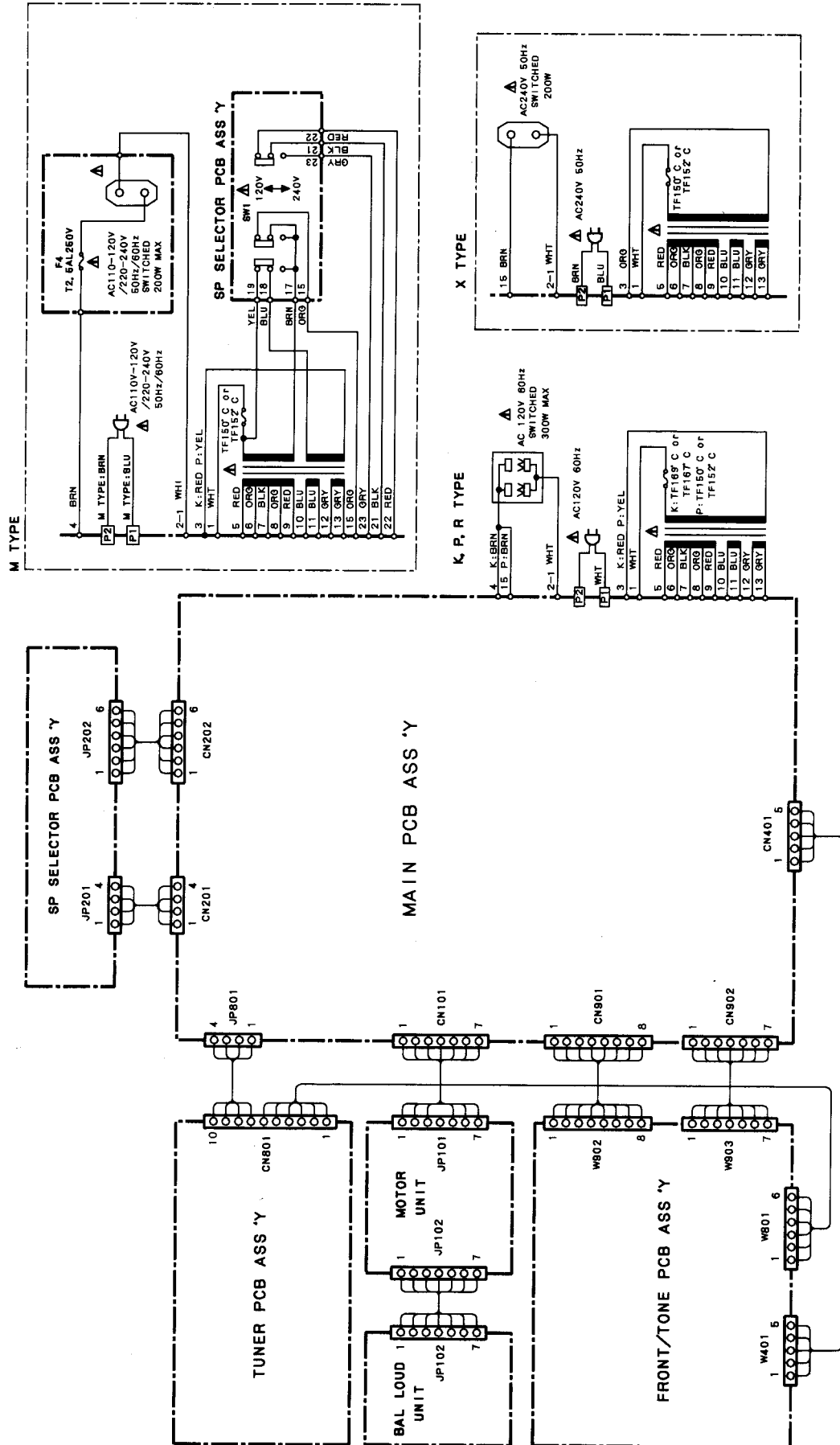
SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA



EXCEPT

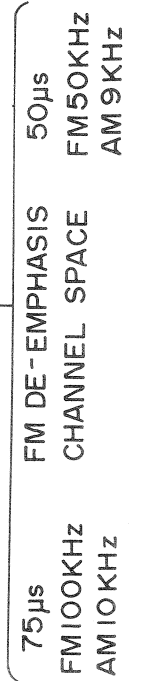
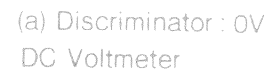
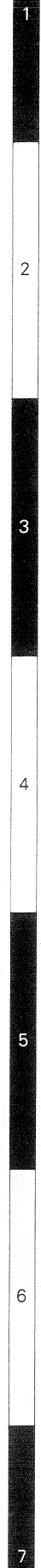
KR-A4060

WIRING DIAGRAM



EXCEPT E,T

A horizontal bar divided into 10 segments labeled A through J. Segments B, D, F, and H are shaded black. Segments A, C, E, G, I, and J are white.



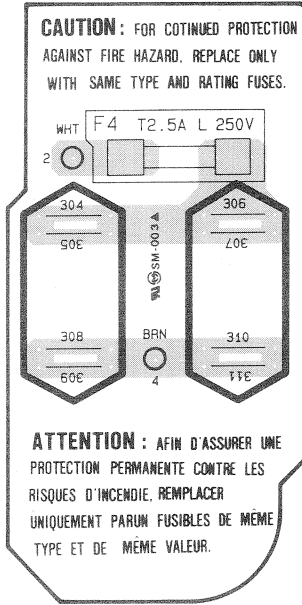
FRONT

21

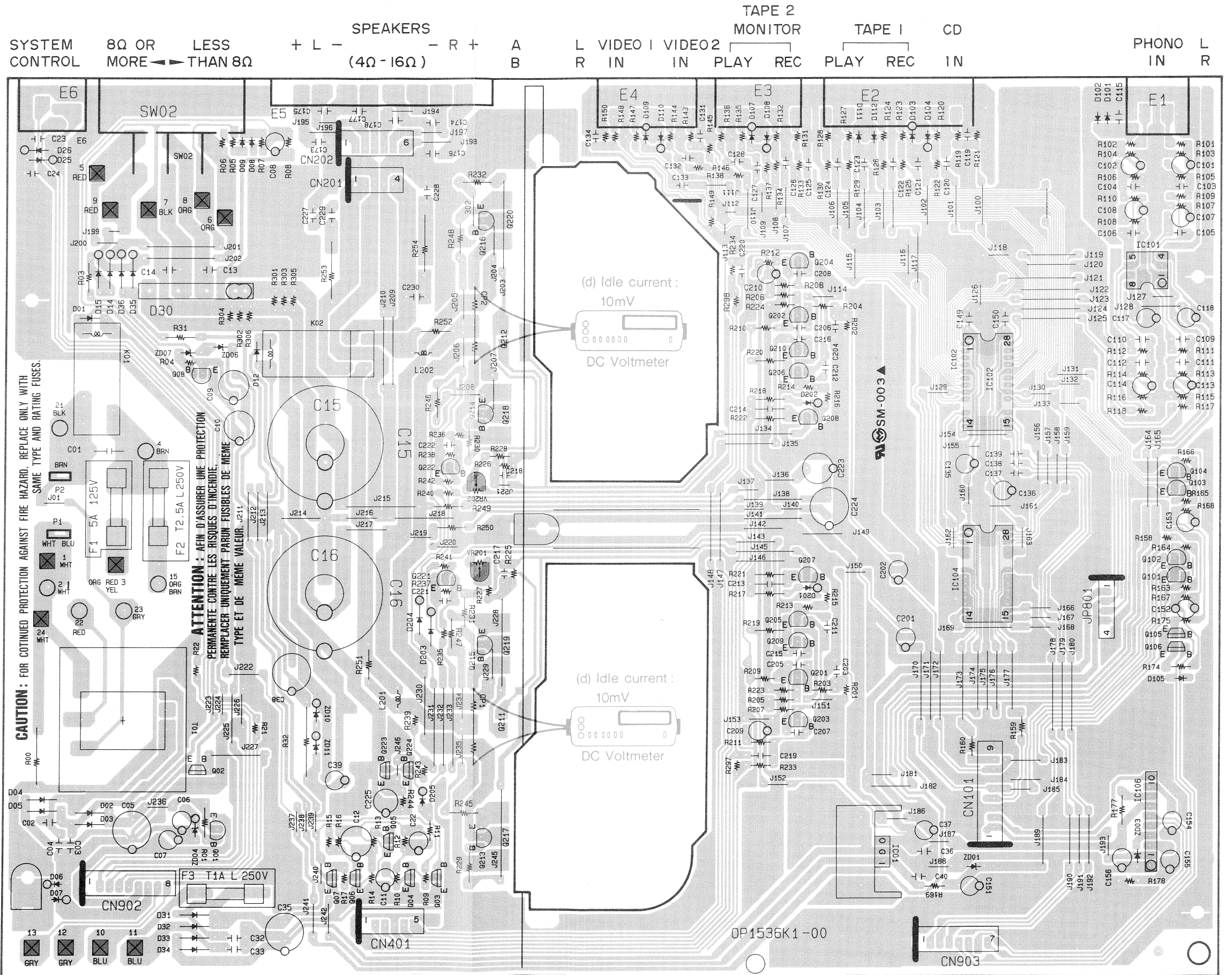
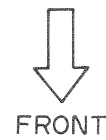
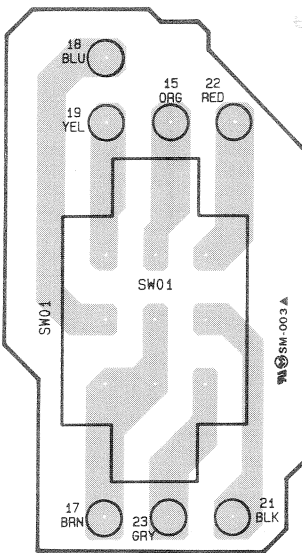
EXCEPT

PC BOARD (COMPONENT SIDE VIEW) : KR-A4060

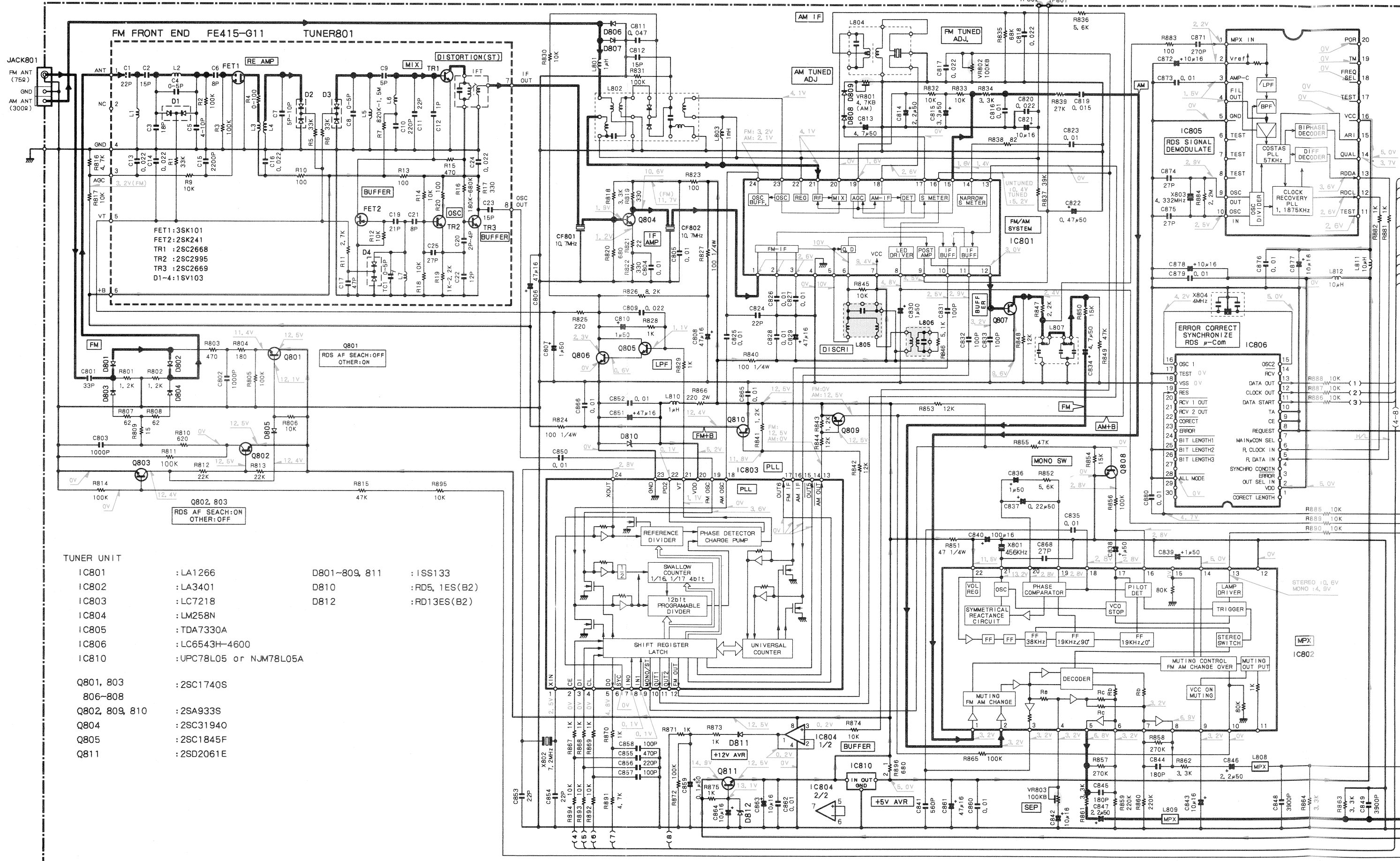
AC110-120V ~ / 220-240V ~
50/60Hz
SWITCHED 200W MAX.

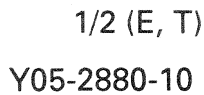


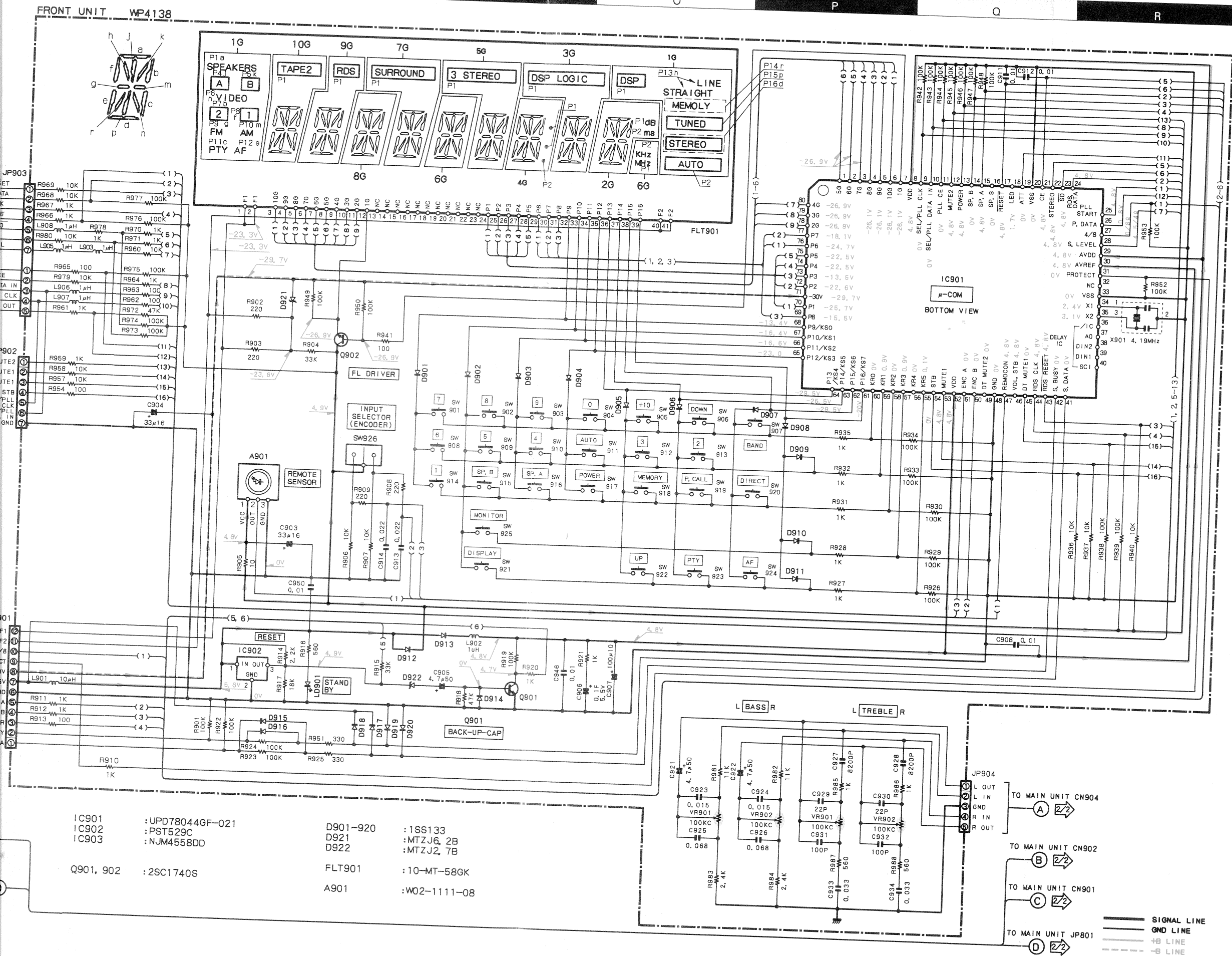
AC110-120V ~ AC220-240V ~



TUNER UNIT WP4140K1







• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

2SA992
 2SC1845
 2SC2878

2SD882

2SA1695
 2SC4467

DTA114ES
 DTC114ES
 2SA933S
 2SC1740S

2SC4137

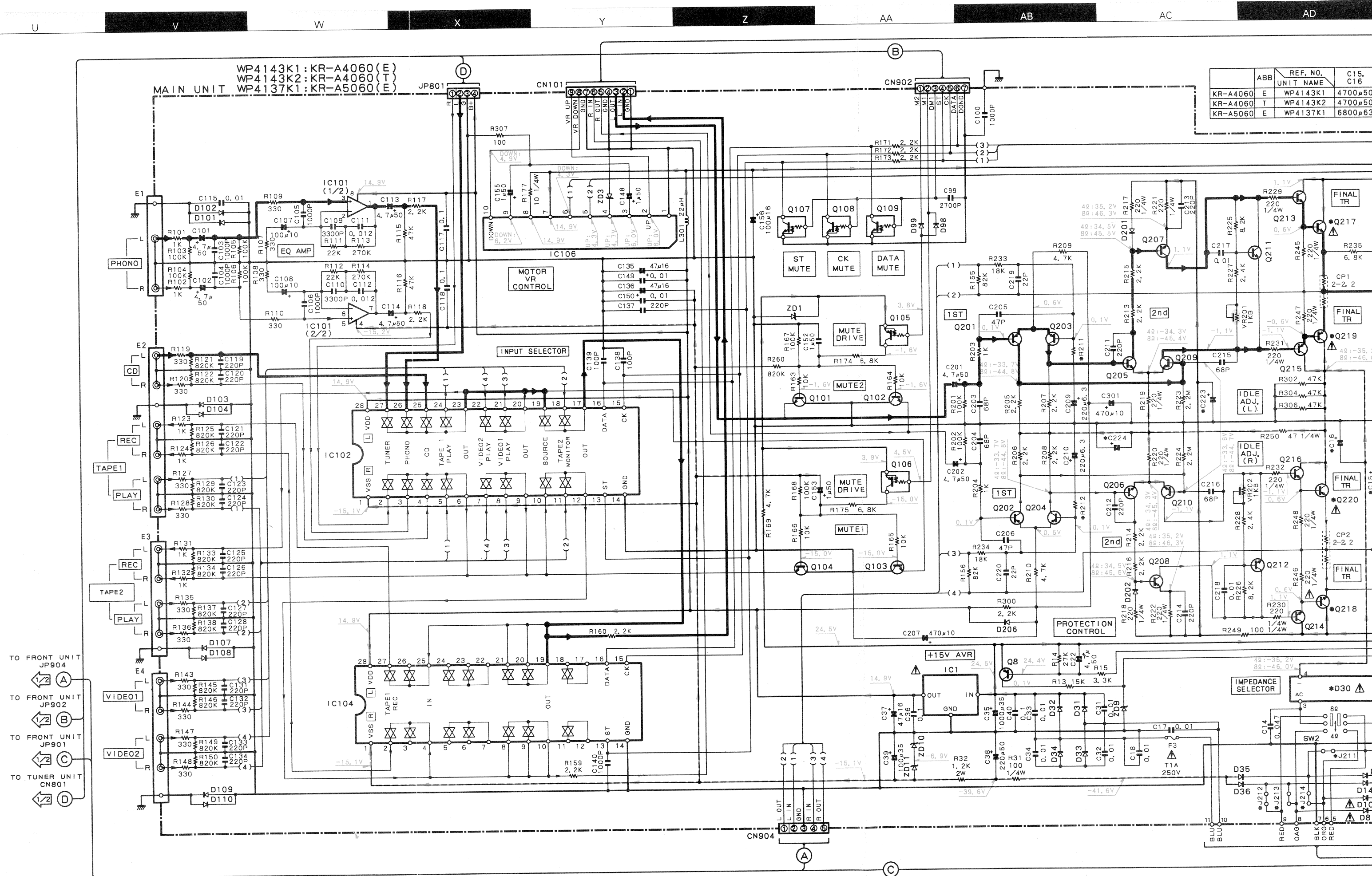
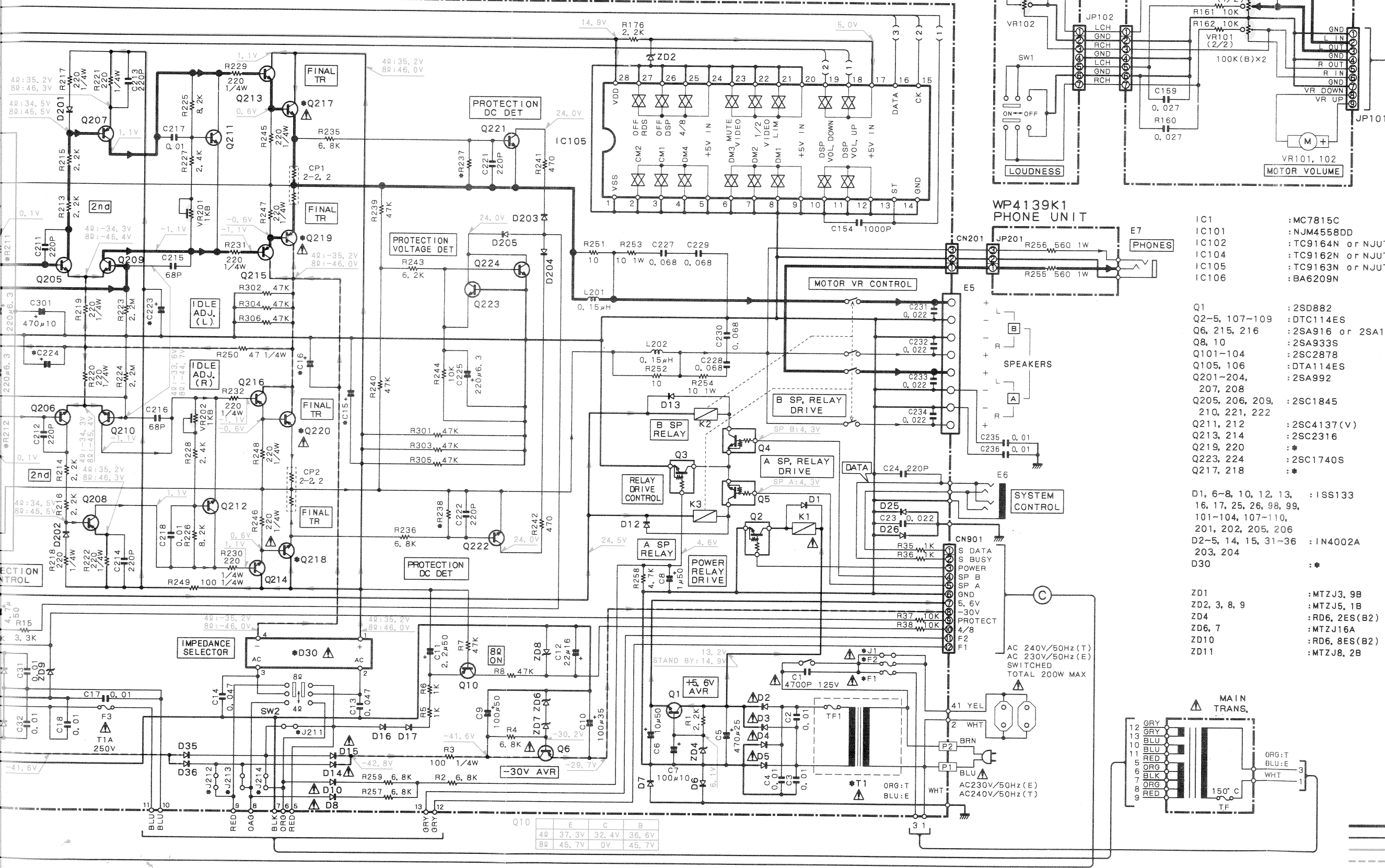


	ABB	REF. NO. UNIT NAME	C15, C16	C223	C224	D30	F1	F2	R211, R212	R237, R238	Q217, Q218	Q219, Q220	J211, J212	J213, J214	T1
KR-A4060	E	WP4143K1	4700μ50	47μ50	100μ50	DBF40C	T1, 6A/250V	T2, 5A/250V	820	2, 7K	2SC4467	2SA1694	YES	NO	L07-0828-08
KR-A4060	T	WP4143K2	4700μ50	47μ50	100μ50	DBF40C	T1, 6A/250V	J1	820	2, 7K	2SC4467	2SA1694	YES	NO	L07-0825-08
KR-A5060	E	WP4137K1	6800μ63	47μ63	100μ63	DBF60C	T2A/250V	T2, 5A/250V	680	2, 2K	2SC4468	2SA1695	NO	YES	L07-0828-08



- IC1 : MC7815C
IC101 : NJM4558DD
IC102 : TC9164N or NJU7313L
IC104 : TC9162N or NJU7311L
IC105 : TC9163N or NJU7312AL
IC106 : BA6209N

- Q1 : 2SD882
Q2-5, 107-109 : DTC114ES
Q6, 215, 216 : 2SA916 or 2SA1274
Q8, 10 : 2SA933S
Q101-104 : 2SC2878
Q105, 106 : DTA114ES
Q201-204, 207, 208 : 2SA992
Q205, 206, 209, 210, 221, 222 : 2SC1845
Q211, 212 : 2SC4137(V)
Q213, 214 : 2SC2316
Q219, 220 : *
Q223, 224 : 2SC1740S
Q217, 218 : *

- D1, 6-8, 10, 12, 13, 16, 17, 25, 26, 98, 99, 101-104, 107-110, 201, 202, 205, 206 : 1N4002A
D2-5, 14, 15, 31-36 : *
D30 : *

- ZD1 : MTZJ3, 9B
ZD2, 3, 8, 9 : MTZJ5, 1B
ZD4 : RD6, 2ES(B2)
ZD6, 7 : MTZJ16A
ZD10 : RD6, 8ES(B2)
ZD11 : MTZJ8, 2B

SIGNAL LINE
GND LINE
+B LINE
-B LINE



A diagram of a 3-pin connector. The pins are labeled from left to right: GND, INPUT, and OUTPUT.

Diagram of a 28-pin DIP package for the 9164N. The package is shown from a perspective view, highlighting the 28 pins along the bottom edge. Pin numbers 15 and 28 are indicated at the ends of the pin row.

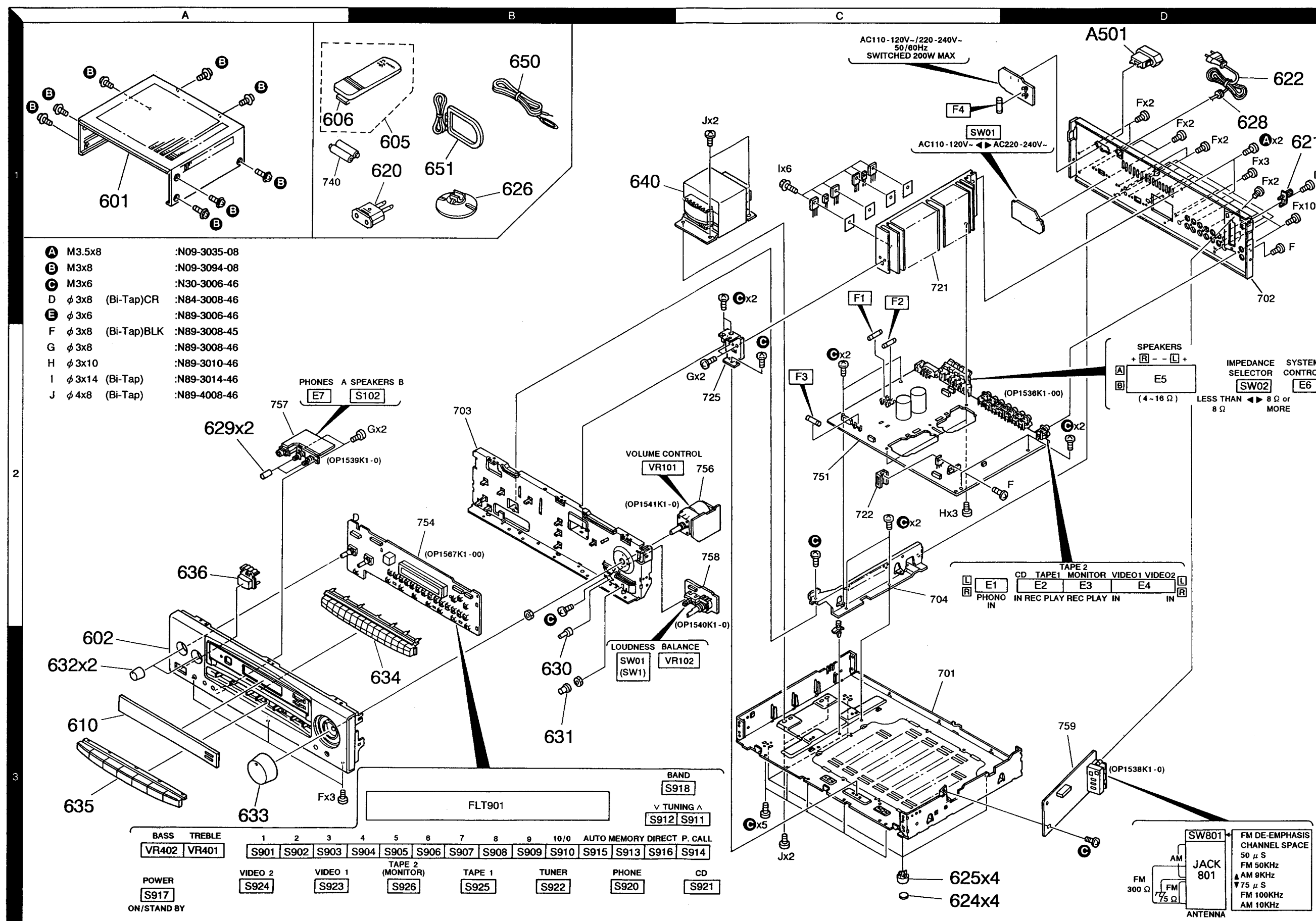
A perspective view of a 22-pin DIP package. The pins are numbered 1 to 22, with 12 on the right side and 22 on the left side.

A perspective view of a 24-pin DIP package. The package is rectangular with two rows of pins. Pin 13 is labeled at the top right, and pin 24 is labeled at the bottom left.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KENWOOD

KR-A4060 KR-A4060 EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

* New Parts
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Teile ohne **Parts No.** werden nicht geliefert

★ New Parts
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Ref. No.	Address	New Parts	Parts No.	Description	Destination
參照番号	位置	新部	部品番号	部 品 名 / 規 格	仕 向 備 考
KR-A4060					
601	1A	*	A01-3167-08	METALLIC CABINET	MX
601	1A	*	A01-3168-08	METALLIC CABINET	KPR
602	3A	*	A60-0634-08	FRONT PANEL	
605	1B	*	A70-0985-08	REMOTE CONTROL ASSY	
606	1A	*	A09-0170-08	BATTERY COVER	
			B46-0197-00	CARD REGISTRATION	K
610	3A	*	B10-2040-08	FRONT GLASS	X
-			B46-0092-23	WARRANTY CARD	X
-			B46-0096-33	WARRANTY CARD	X
-			B46-0121-23	WARRANTY CARD	P
-		*	B60-1577-08	INSTRUCTION MANUAL (ENGLISH)	KXR
-		*	B60-1578-08	INSTRUCTION MANUAL (ENG.FRE)	P
-		*	B60-1579-08	INSTRUCTION MANUAL (ENG.CHI)	M
-		*	B60-1580-08	INSTRUCTION MANUAL (ENG.CHI)	E
-		*	B60-1581-08	INSTRUCTION MANUAL (ENGLISH)	ET
-		*	B60-1581-08	INSTRUCTION MANUAL (FR,GU,NU)	E
-		*	B60-1582-08	INSTRUCTION MANUAL (SPA,ITA)	E
-		*	B60-1619-08	INSTRUCTION MANUAL (SPANISH)	MR
620	1B		E03-0115-05	AC PLUG ADAPTER	M
621	1D		E21-0023-08	GND TERMINAL	
622	1D		E30-0459-05	AC POWER CORD	M
622	1D		E30-0974-05	AC POWER CORD	KPR
622	1D		E30-1341-05	AC POWER CORD	X
A501	1D		E03-0055-08	AC OUTLET	M
A501	1D	*	E03-0123-08	AC OUTLET	KPR
A501	1D	*	E03-0316-08	AC OUTLET	X
624	3C		G13-0267-08	CUSHION	F00T
		*	H50-1028-08	ITEM CATONBOX	KPXR
		*	H50-1029-08	ITEM CATONBOX	M
-		*	H10-5855-08	POLYSTYRENE FOAMED FIXTURE	
-		*	H25-0078-04	PROTECTION BAG (ACCESSORY)	
-		*	H25-0647-08	PROTECTION BAG (MANUAL)	
-		*	H25-1543-08	PROTECTION BAG (UNIT)	
625	3C		J02-1107-08	F00T	
626	1B		J19-2815-04	ANTENNA HOLDER	
628	1D		J42-0198-08	AC CORD BUSHING	
629	2A		K27-2033-08	KNOB SPEAKERS	
630	3B	*	K27-2166-08	KNOB LOUDNESS	
631	3B		K29-4444-08	KNOB BALANCE	
632	3A		K29-5952-08	KNOB BASS,TREBLE	
633	3A		K29-5953-08	KNOB VOLUME	
634	3B		K29-5954-08	KNOB PRESET (10KEY)	
635	3A		K29-5955-08	KNOB FUNCTION	
636	2A		K29-5956-08	KNOB POWER	
640	1B		L07-0388-08	TRANSFORMER	KPR
640	1B	*	L07-1803-08	TRANSFORMER	M
640	1B	*	L07-1804-08	TRANSFORMER	X
A	2C		N09-2907-05	BINDING HEAD TAPTITE SCREW	
B	1A	*	N09-3094-08	BINDING HEAD TAPTITE SCREW	
C	2D		N30-3006-46	SCREW	
D	1D		N84-3008-46	TAPTITE SCREW	

L: Scandinavia K: USA P: Canada R: Mexico
Y: PX (Far East, Hawaii) T: England E: Europe G: Germany
Y: AAFES (Europe) X: Australia M: Other Areas

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* New Parts

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Ref. No. 參照番号	Address 位置	New Parts	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 向備考
C211-214			CC45CH1H221J	220PF	J
C215-216			CC45SL1H680J	68PF	J
C217-218			CC45FF1H103Z	0.010UF	Z
C219-220			KHR-9P1801J76	18PF	J
C221-222			CC45CH1H221J	220PF	J
C223			CE04KW1J470M	47UF	63WV
C224			CE04KW11101M	100UF	63WV
C225			CE04KW0J221M	220UF	6.3WV
C229-230			C992EM1H333J	0.033UF	J
C401-402			C992EM1H822J	8200PF	J
C407-408			C992EM1H333J	0.033UF	J
C409-410			CE04KW1H487M	4.7UF	50WV
C411-412			C992EM1H153J	0.015UF	J
C413-414			C992EM1H685J	0.068UF	50WV
C801			CE04KW1H010M	1.0UF	50WV
C802			CE04KW1C470M	47UF	16WV
C803			C992EM1H273J	0.027UF	J
C804			CE04KW1H010M	1.0UF	50WV
C805			CE04KW1C470M	47UF	16WV
C806-807			CK45F1H103M	0.010UF	M
C809			CK45FF1H223Z	0.022UF	Z
C816			CK45FF1H223Z	0.022UF	Z
C817			CE04KW1H282M	2.2UF	50WV
C818			CE04KW1H487M	4.7UF	50WV
C819			CK45FF1H223Z	0.022UF	Z
C820			CE04KW1H383M	3.3UF	50WV
C821			CK45F1H103M	0.010UF	M
C822			CK45FF1H223Z	0.022UF	Z
C823			CE04KW1H100M	10UF	50WV
C824			CK45FF1H223Z	0.022UF	Z
C825			C992EM1H153J	0.015UF	J
C826			CE04KW1H100M	10UF	50WV
C827			CE04KW1HR47M	0.47UF	50WV
C828-830			CK45F1H103M	0.010UF	M
C831			CC45CH1H101J	100PF	J
C832			CK45F1H103M	0.010UF	M
C833			CE04KW1C470M	47UF	16WV
C839			CQ97SM1H471J	470PF	J
C840			CE04KW1H282M	2.2UF	50WV
C841			CE04KW1H383M	3.3UF	50WV
C842			CE04KW1HR47M	0.47UF	50WV
C843			C992EM1H473J	0.047UF	J
C844			CC45EB1H471K	470PF	K
C845			CK45F1H103M	0.010UF	M
C846-847			CC45SL1H151K	150PF	K
C849			CE04KW1C221M	220UF	16WV
C850-851			CE04KW1H010M	1.0UF	50WV
C852			C992EM1H222J	2200PF	J
C853			C992EM1H562J	5600PF	J
C854-855			C992EM1H153J	0.015UF	J
C854-855			C992EM1H223J	0.022UF	J
C856			CK45F1H103M	0.010UF	M
C857			CE04KW1C470M	47UF	16WV
C858-859			CE04KW1H220J	22PF	J
C860-862			CC45CH1H101J	100PF	J

L.: Scandinavia K: USA P: Canada R: Mexico
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KR-A4060

PARTS LIST

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部 品 名 / 規 格	Desti- nation 仕 向備考
B	3A, 1D	N89-3008-45	BINDING HEAD TAPTITE SCREW	
F	2B, 2D	N89-3008-46	BINDING HEAD TAPTITE SCREW	
F	2B, 2D	N89-3014-46	BINDING HEAD TAPTITE SCREW	
G	1C, 3C	N89-4008-46	BINDING HEAD TAPTITE SCREW	
650	1B	T90-0182-05	T TYPE ANTENNA	
651	1B	T90-0184-08	LOOP ANTENNA	
ELECTRIC PARTS				
D901		B30-0413-05	LED (LT4213)(RED)POWER)	
C1		CE04SCH1472J	CERAMIC 4700PF J	
C5		CE04KW1E471M	ELECTR0 4700PF 25WV	
C6		CE04KW1H010M	ELECTR0 100UF 50WV	
C7		CE04KW1A101M	ELECTR0 100UF 10WV	
C8		CE04KW1H010M	ELECTR0 1.0UF 50WV	
C9		CE04KW1H010M	ELECTR0 100UF 50WV	
C10		CE04KW1V101M	ELECTR0 100UF 35WV	
C11		CE04KW1H010M	ELECTR0 1.0UF 50WV	
C12		CE04KW1C470M	ELECTR0 47UF 16WV	
C13 ,14		CK45FB1H473Z	CERAMIC 0.047UF Z	
C15 ,16		C90-0366-05	ELECTR0 6800UF 50WV	
C22		CE04KW1H47M	ELECTR0 4.7UF 50WV	
C23		CK45FF1H223Z	CERAMIC 0.022UF Z	
C2-4		CK45FF1H103Z	CERAMIC 0.010UF Z	
C24		CK45CH1H102J	CERAMIC 1000PF J	
C32 ,33		CK45FF1H103Z	CERAMIC 0.010UF Z	
C35		CE04KW1E471M	ELECTR0 4700PF 25WV	
C36		CK45FF1H104Z	CERAMIC 0.10UF Z	
C37		CE04KW1C470M	ELECTR0 47UF 16WV	
C38		CE04KW1H221M	ELECTR0 220UF 50WV	
C39		CE04KW1C101M	ELECTR0 100UF 16WV	
C40		CK45FF1H104Z	CERAMIC 0.10UF Z	
C101,102		CE04KW1H487M	ELECTR0 0.7UF 50WV	
C103,104		CK45CH1H251J	ELECTR0 220PF J	
C105,106		CK45CH1H102J	CERAMIC 1000PF J	
C107,108		CE04KW1A101M	ELECTR0 100UF 10WV	
C109,110		C92FM1H532J	MYLAR 3300PF J	
C111,112		C92FM1H123J	MYLAR 0.012UF J	
C113,114		CE04KW1H487M	ELECTR0 4.7UF 50WV	
C115		CK45FF1H103Z	CERAMIC 0.010UF Z	
C117,118		CE04KW1C470M	ELECTR0 47UF 16WV	
C135,136		CE04KW1C470M	ELECTR0 47UF 16WV	
C137		CK45FF1H472Z	CERAMIC 4700PF Z	
C138,139		CK45CH1H102J	CERAMIC 1000PF J	
C149,150		CK45FF1H103Z	CERAMIC 0.010UF Z	
C151		CE04KW1C470M	ELECTR0 47UF 16WV	
C152		CE04BP1H010M	NP-ELEC 1.0UF 50WV	
C153-155		CE04KW1H010M	ELECTR0 1.0UF 50WV	
C156		CE04KW1C101M	ELECTR0 1000PF J	
C157		CE04KW1H487M	ELECTR0 4.7UF 50WV	
C159,160		C92FM1H273J	MYLAR 0.027UF J	
C201,202		CE04KW1H487M	ELECTR0 4.7UF 50WV	
C203,204		CA45SL1H680J	CERAMIC 68PF J	
C205-208		CA45SL1H101J	CERAMIC 100PF J	
C209,210		CE04KW1A101M	ELECTR0 100UF 10WV	

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36

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KR-A4060

PARTS LIST

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 向	Re- marks 備考
C863			CX45FH1H103M	CERAMIC	0.010UF	M
C864			C992FM1H222J	MYLAR	2200PF	J
C865			C992FM1H562J	MYLAR	5600PF	J
C890			CC45CH1H220J	CERAMIC	22PF	J
C902			CE04KW1HR47M	ELECTRØ	0.47UF	50WV
C903			CX45F1H103M	CERAMIC	0.010UF	M
C904			CE04KW1A101M	ELECTRØ	100UF	10HV
C905			C901-1827-05	ELECTRØ	0.047UF	5.5WV
C906, 907			CX45F1H103M	CERAMIC	0.010UF	M
C908			CC45CH1H221J	CERAMIC	220PF	J
C910			CX45FF1H104Z	CERAMIC	0.10UF	Z
C920			CE04KW1H100M	ELECTRØ	100UF	50WV
C921			CX45FF1H104Z	CERAMIC	0.10UF	Z
C922			CE04KW1A101M	ELECTRØ	100UF	10WV
C923			CX45FB1H473Z	CERAMIC	0.047UF	Z
C926			CC45SL1H101J	CERAMIC	100PF	J
A501	1D		E03-0144-08	AC ØUTLET		
E1		*	E13-0249-05	TERMINAL BOARD PHONO		KPR
E2			E03-0118-08	TERMINAL BOARD CD TAPE1		
E5			E70-0004-08	TERMINAL BOARD SPEAKERS		
E6			E11-0188-05	PHONE JACK		
E7			E11-0263-08	PHONE JACK	HEAD PHONE	
E3, 4			E13-0445-05	TERMINAL BOARD TAPE2	VDEØ1,2	
JACK801			E70-0005-08	TERMINAL BOARD ANTENNA		
F1			F04-5022-05	FUSE UL/CSA 5A(125V)		KPR
F1			F06-2021-05	FUSE T2.0AL(250V)		MX
F2			F05-2525-05	FUSE T2.5AL (250V)		MX
F2			F06-2525-05	FUSE UL/CSA 2.5A(125V)		P
F3			F06-1022-05	FUSE T1.0AL(250V)		MX
F3			KHT-JF1209L1	FUSE UL/CSA T1.0A(250V)		KPR
F4			P06-2021-05	FUSE T2.0AL(250V)		M
CF801, 802			J13-0084-08	FUSE HOLDER		
CF803			L72-0531-05	CERAMIC FILTER	10.7MHz	
L201, 202			L72-0096-05	CERAMIC FILTER		
L801		*	L39-1303-08	INDUCTØR	0.15UH	
L802			L40-1091-17	SMALL FIXED INDUCTØR	10H	
			L39-0189-05	CØIL		
L804			L30-0488-05	IFT-AM		
L806			L30-0439-05	IFT-FM		
L901		*	L40-1001-17	CØIL INDUCTØR 100H		
T1			L07-0408-08	TRANS FORMER		KPR
T1			L07-0789-08	TRANS FORMER		X
T1			L07-0790-08	TRANS FORMER		M
X801			L77-1122-05	CRYSTAL RESONATOR	7.2MHz	
X901			L78-0209-05	RESONATOR	4.19MHz	
F	2D		N89-3008-46	BINDING HEAD TAP TITE SCREW		
CP1, 2			R90-0187-05		0.22	J 5W
R0			KHR-RC3356J0	RD	3.3M	J 1/2W
R3			RD14GB2E101J	FL-PROOF RD 100	J	1/4W
R31			RD14GB2E101J	FL-PROOF RD 100	J	1/4W
R32			RS14DB3D122J	FL-PROOF RS 1.2K	J	2W

L.: Scandinavia K: USA P: Canada R: Mexico
Y: PX (Far East, Hawaii) T: England E: Europe G: Germany
Y: AAFES (Europe) X: Australia M: Other Areas

A indicates safety critical components.

* New Parts

Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

5

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
R177		RD14GB2E100J	FL-PROOF RD 10	J 1/4W	
R217-222		RD14GB2E221J	FL-PROOF RD 220	J 1/4W	
R229-232		RD14GB2E470J	FL-PROOF RD 47	J 1/4W	
R245-248		RD14GB2E221J	FL-PROOF RD 220	J 1/4W	
R249		RD14GB2E101J	FL-PROOF RD 100	J 1/4W	
R250		RD14GB2E470J	FL-PROOF RD 47	J 1/4W	
R253, 254		RS14DB3A100J	FL-PROOF RS 10	J 1W	
R255, 256		RS14DB3A561J	FL-PROOF RS 560	J 1W	
R806		RD14GB2E101J	FL-PROOF RD 100	J 1/4W	
R810		RD14GB2E101J	FL-PROOF RD 100	J 1/4W	
R836		RD14GB2E101J	FL-PROOF RD 100	J 1/4W	
R851		RD14GB2E201J	FL-PROOF RD 82	J 1/4W	
R869		RD14GB2E221J	FL-PROOF RD 220	J 1/4W	
VR101		R39-0001-08	POTENTIOMETER VOLUME 100KBX2		
VR102		R10-5071-08	POTENTIOMETER BALANCE		
VR201, 202		R12-1066-05	TRIMMING POT. IDLE ADJ. 1KB		
VR401, 402		R35-0002-08	POTENTIOMETER BASS, TREBLE 100KC		
VR801		R12-3166-08	TRIM POT. 33KB FM TUNE LEVEL		
VR802		R12-1053-05	TRIM POT. 4.7KB VC0		
VR804		R12-3071-05	TRIM POT. 10KB AM TUNE LEVEL		
△ K1		KHR-0Y0026M1	MAGNETIC RELAY POWER		
K2		S76-0035-08	MAGNETIC RELAY SPEAKER		
S102		S42-2156-05	PUSH SWITCH SPEAKERS		
S901-918		S70-0030-08	TACT SWITCH KEY BOARD		
S920-926		S70-0030-08	TACT SWITCH KEY BOARD		
△ SW01		S31-3010-05	SLIDE SWITCH VOLTAGE SELECT	M	
SW1		S68-0040-08	PUSH SWITCH LOUDNESS		
SW2		S62-0032-08	SLIDE SWITCH IMPEDANCE SEL		
SW801		S62-0012-08	SLIDE SWITCH CH. SPACE	M	
D1		1SS131	DIODE		
D12		1SS131	DIODE		
D2-5		1N4002A	DIODE		
△ D30		DBF60C	DIODE		
D6-9		1SS131	DIODE		
D101-112		1SS131	DIODE		
D107-110		1SS131	DIODE		
△ D14, 15		1N4002A	DIODE		
D201-205		1SS131	DIODE		
D25, 26		1SS131	DIODE		
△ D31-36		1N4002A	DIODE		
D37, 38		1SS131	DIODE		
D801, 802		1SS133	DIODE		
D810		RD5, 1BS(B2)	ZENER DIODE		
D811, 812		1SS133	DIODE		
D902-904		1SS133	DIODE		
D905		MTZJ6.8B	ZENER DIODE		
D908		1SS133	DIODE		
D909-918		1SS133	DIODE		
D920		RD4, 7ES(B2)	ZENER DIODE		
D921		1SS133	DIODE		
D924		1SS133	DIODE		
PLT901		5-MT-167GK	FLUORESCENT INDICATOR TUBE		
IC1		KIA78012AP	IC(+12V AVR)		
△ IC101		NJM4558DD	IC(OP AMP X2)	KPR	

L: Scandinavia K: USA P: Canada R: Mexico
Y: PX (Far East, Hawaii) T: England G: Germany
Y: AFES (Europe) X: Australia M: Other Areas

△ indicates safety critical components.

EXCEPT

* New Parts

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Teile ohne **Parts No.** werden nicht geliefert.

6

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
IC102		NJU7313L	IC(ANALOG SWITCH)		
IC102		TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC104		NJU7311L	IC(ANALOG SWITCH)		
IC104		TC9162N	IC(ANALOG SWITCH ARRAY)		
IC106		BA6209N	IC(MOTOR DRIVER)		
IC801		LA1265	IC(FM/AM TUNER)		
IC802		AN7470	IC(FM MPX)		
IC803		LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC901		CXP5016-52AS	IC(4bit MICROPROCESSOR)		
IC901		CXP5016-531S	IC(4bit MICROPROCESSOR)		
△ Q1		2SC2316	TRANSISTOR		
Q4		2SC1740S	TRANSISTOR		
Q7		DTC114ES	DIGITAL TRANSISTOR		
Q8		2SA916	TRANSISTOR		
△ Q2, 3		DTC114ES	DIGITAL TRANSISTOR		
Q5, 6		2SA933	TRANSISTOR		
Q101-104		2SC2878	TRANSISTOR		
Q105, 106		DTA114TS	DIGITAL TRANSISTOR		
Q201-204		2SA992	TRANSISTOR		
△ Q205, 206		2SC1845	TRANSISTOR		
Q207, 208		2SA992	TRANSISTOR		
Q209, 210		2SC1845	TRANSISTOR		
Q211, 212		2SC4137	TRANSISTOR		
Q213, 214		2SC2316	TRANSISTOR		
Q215, 216		2SA916	TRANSISTOR		
△ Q217, 218		2SC4468	TRANSISTOR		
△ Q219, 210		2SA1695	TRANSISTOR		
Q221, 222		2SC1845	TRANSISTOR		
Q223, 224		2SC1740S	TRANSISTOR		
Q801		KTC31940	TRANSISTOR		
Q803		2SC1740S	TRANSISTOR		
Q804		2SC1845F	TRANSISTOR		
Q808, 809		2SA933S	TRANSISTOR		
Q811, 812		2SC1740S	TRANSISTOR		
Q901		2SA933S	TRANSISTOR		
Q902		2SC1740S	TRANSISTOR		
Q903		DTA143TS	TRANSISTOR		
Z01		MTZJ3.9B	ZENER DIODE		
Z03		MTZJ5.1B	ZENER DIODE		
Z04		MTZJ6.2B	ZENER DIODE		
Z06		RD15ES(B2)	ZENER DIODE		
Z07		MTZ12B	ZENER DIODE		
ZD10, 11		MTZJ6.2B	ZENER DIODE		
A901		W02-1111-08	ELECTRIC CIRCUIT MODULE		
TU801		W02-2504-08	FM FRONT END UNIT		

L: Scandinavia K: USA P: Canada R: Mexico
Y: PX (Far East, Hawaii) T: England G: Germany
Y: AFES (Europe) X: Australia M: Other Areas

△ indicates safety critical components.

KR-A4060

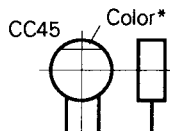
PARTS LIST

PARTS LIST

CAPACITORS

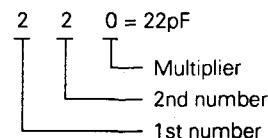
CC 45 TH 1H 220 J
1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating
2 = Shape ... round, square, ect. 5 = Value
3 = Temp. coefficient 6 = Tolerance



• Capacitor value

- 010 = 1pF
100 = 10pF
101 = 100pF
102 = 1000pF = 0.001μF
103 = 0.01μF



• Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

• Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

• Voltage rating

2nd word 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

• Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
1 2 3 4 5 6 7

(Chip) (B, F)

Refer to the table above.

1 = Type
2 = Shape
3 = Dimension
4 = Temp. coefficient
5 = Voltage rating
6 = Value
7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

• Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
1 2 3 4 5 6 7

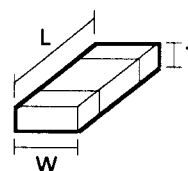
(Chip) (B, F)

• Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
1 2 3 4 5 6 7

- 1 = Type 5 = Rating wattage
2 = Shape 6 = Value
3 = Dimension 7 = Tolerance
4 = Temp. coefficient

Dimension



Dimension (Chip resistor)

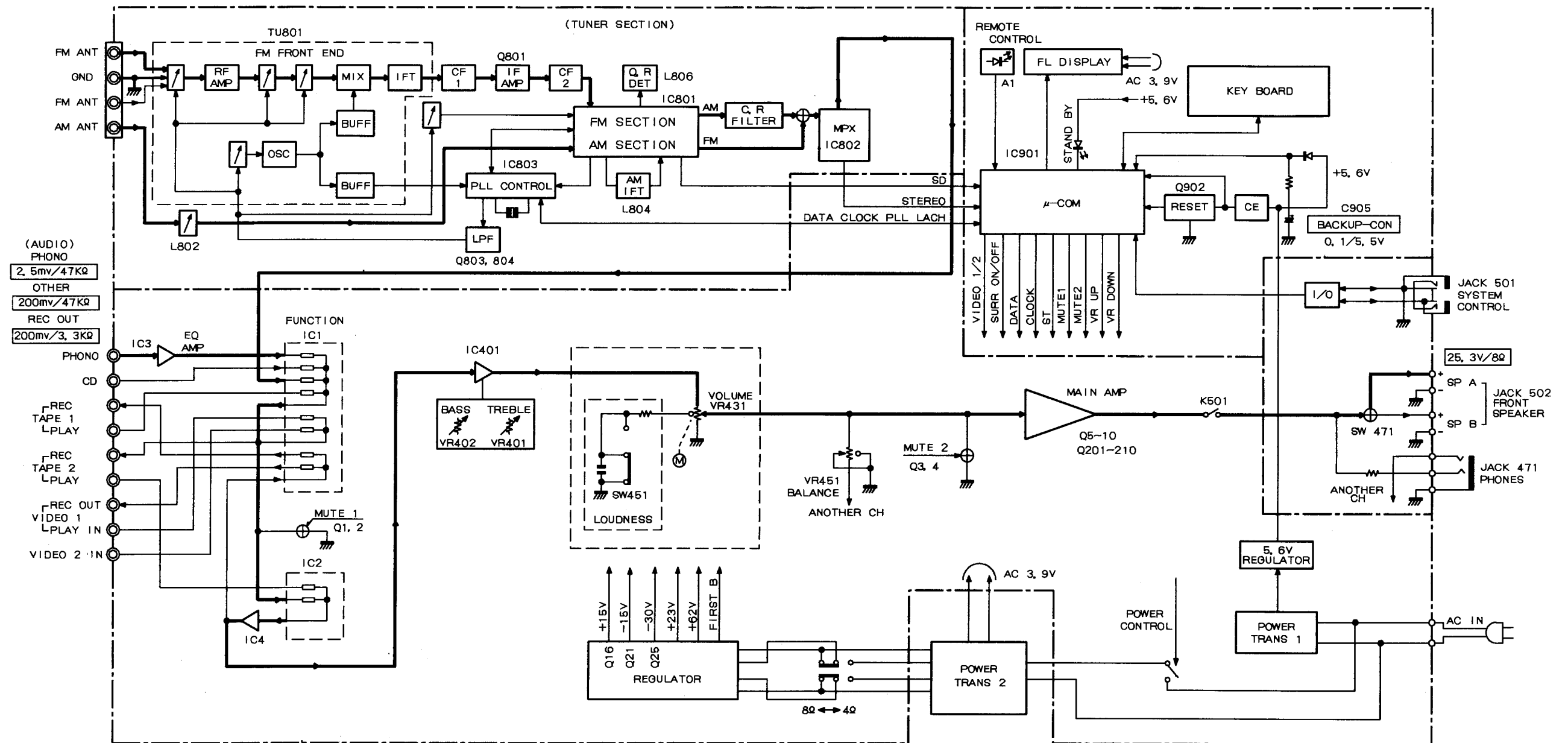
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

Rating wattage

Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

KR-A5060 KR-A5060

BLOCK DIAGRAM



ADJUSTMENT

AM section : If alignment point is "-", confirm the value. If not, replace the front end pack.

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		SELECTOR : FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±75kHz dev. 60dBμ(ANT. input)	Connect a DC voltmeter between TP803 and TP804. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dBμ(ANT. input)	Connect a frequency counter between TP805 and TP806. (TUNER UNIT)	AUTO 98.0MHz	L802 (TUNER UNIT)	19.00kHz	(b)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev. Selector : L or R Pilot : ±6.75kHz dev. 60dBμ(ANT. input)	(B)	98.0MHz	IFT (W02-)	Minimum distortion. (L or R)	
4	TUNING LEVEL	(A) 98.0MHz 0 dev. 18dBμ(ANT. input)	(B)	AUTO or MONO 98.0MHz	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901 (TUNED) goes on.	
AM SECTION		SELECTOR : AM					
(1)	TUNING LEVEL	(D) 1000 (999) kHz 26dBμ(ANT. input)	(B)	-	VR804 (TUNER UNIT)	Adjust VR804 and stop at the point where FLT901 (TUNED) goes on.	
AUDIO SECTION							
<1>	IDLE CURRENT	-	Connect a DC voltmeter across CP1 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR1 (L) VR2 (R) (AUDIO UNIT)	10mV	(d)

AJUSTES

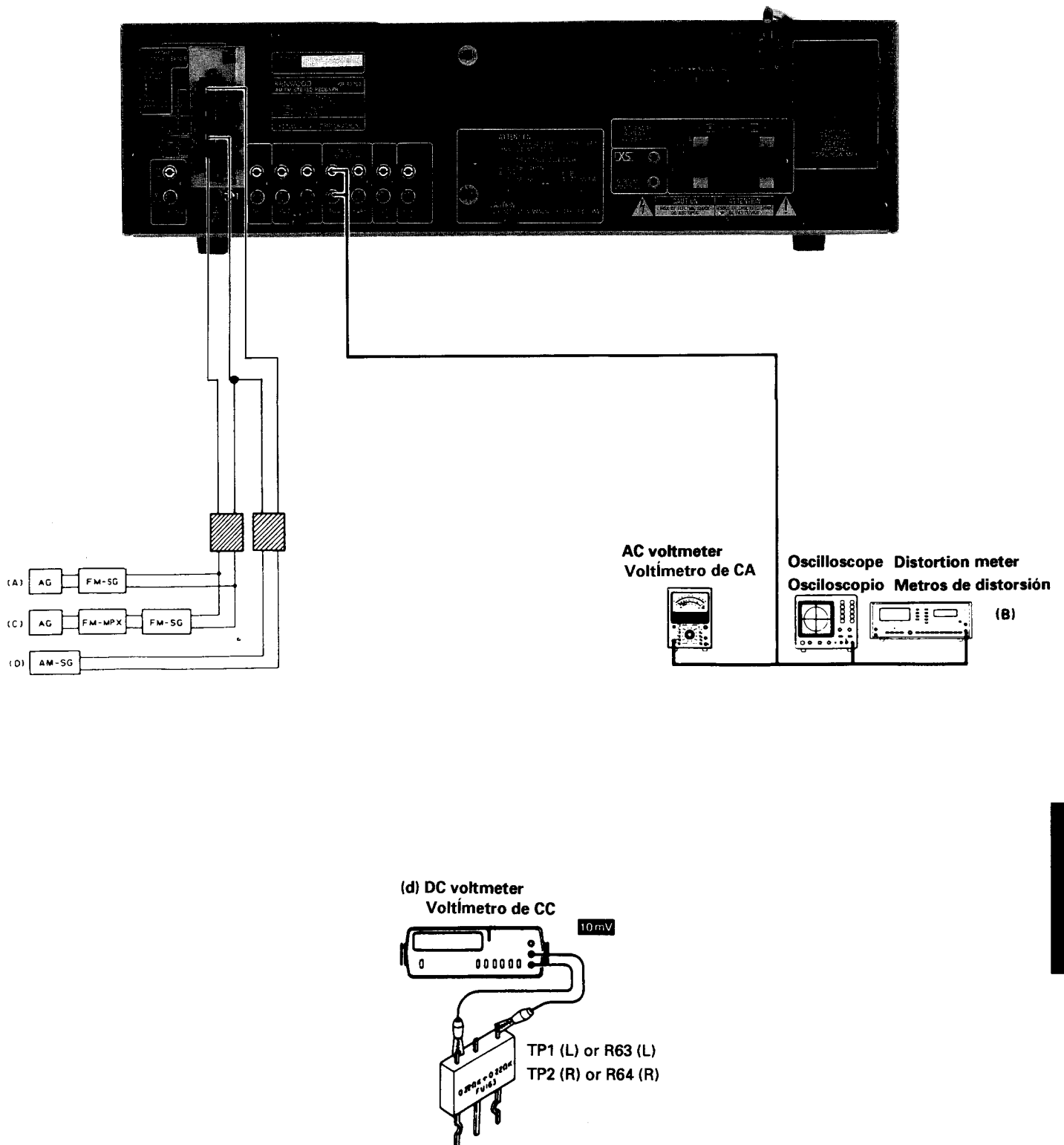
Sección de AM : Si el punto de alineación es "-", confirme el valor. Si no, reemplace el paquete de entrada.

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
SECCIÓN DE FM		SELECTOR : FM					
1	DISCRIMINADOR	(A) 98.0MHz 1kHz, ±75kHz dev. 60dBμ(Entrada de antena)	Conecte un voltímetro de CC entre TP803 y TP804. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dBμ(Entrada de antena)	Conecte un Frecuencímetro entre TP805 y TP806. (UNIDAD DEL SINTONIZADOR)	AUTO 98.0MHz	L802 (UNIDAD DEL SINTONIZADOR)	19.00kHz	(b)
3	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev. Selector : L or R Pilot : ±6.75kHz dev. 60dBμ(Entrada de antena)	(B)	98.0MHz	IFT (W02-)	Distorsión mínima. (L o R)	
4	NIVEL DE SINTONÍA	(A) 98.0MHz 0 dev. 18dBμ(Entrada de antena)	(B)	AUTO o MONO 98.0MHz	VR801 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AM		SELECTOR : AM					
(1)	NIVEL DE SINTONÍA	(D) 1000 (999) kHz 26dBμ(Entrada de antena)	(B)	-	VR804 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AUDIO							
<1>	CORRIENTE EN REPOSO	-	Conecte un voltímetro de CC entre TP1 (L) y TP2 (R) (UNIDAD PRINCIPAL)	Volumen : 0	VR1 (L) VR2 (R) (UNIDAD AUDIO)	10mV	(d)

EXCEPT

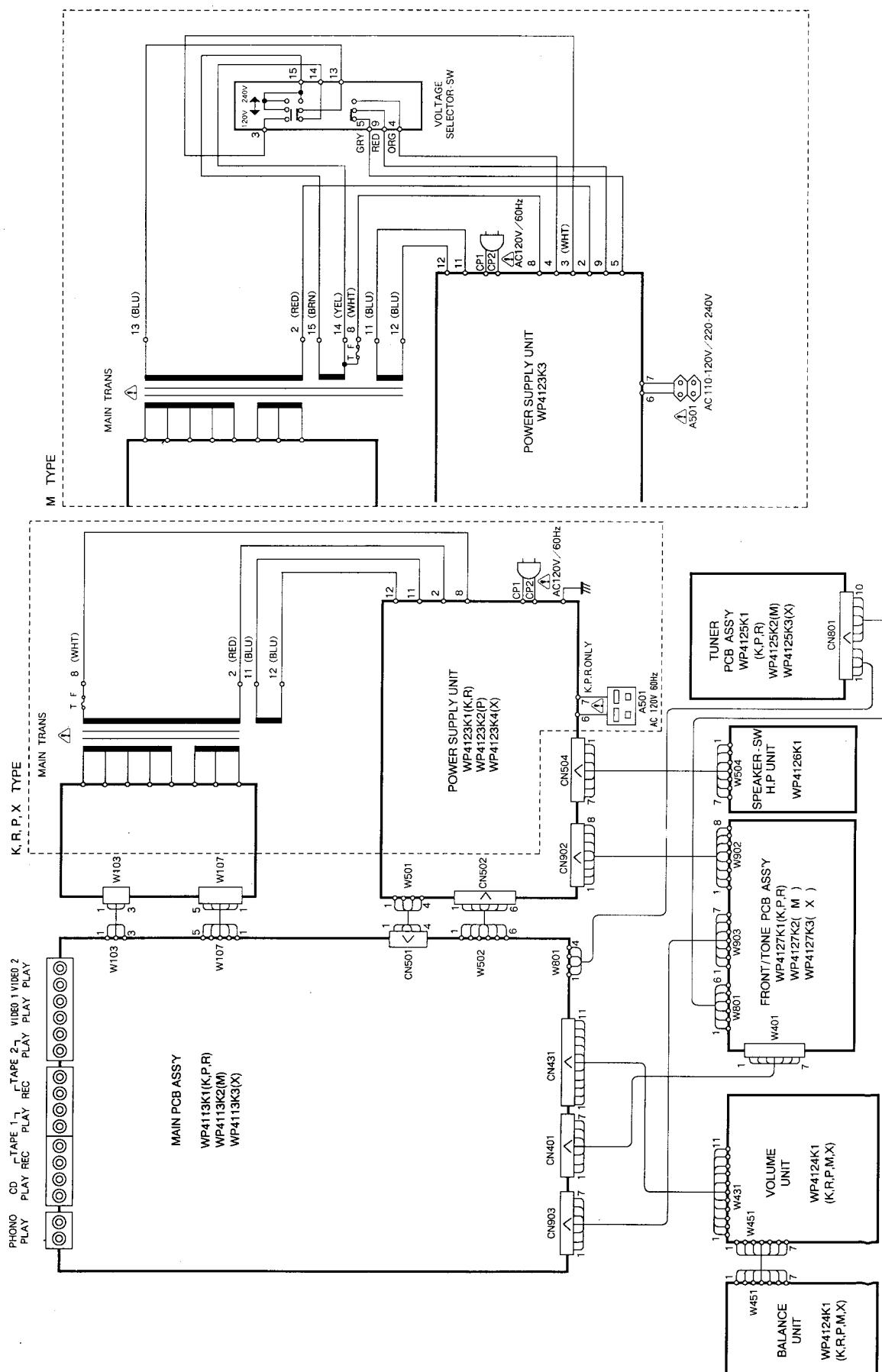
ADJUSTMENT/AJUSTES

SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA



KR-A5060

WIRING DIAGRAM

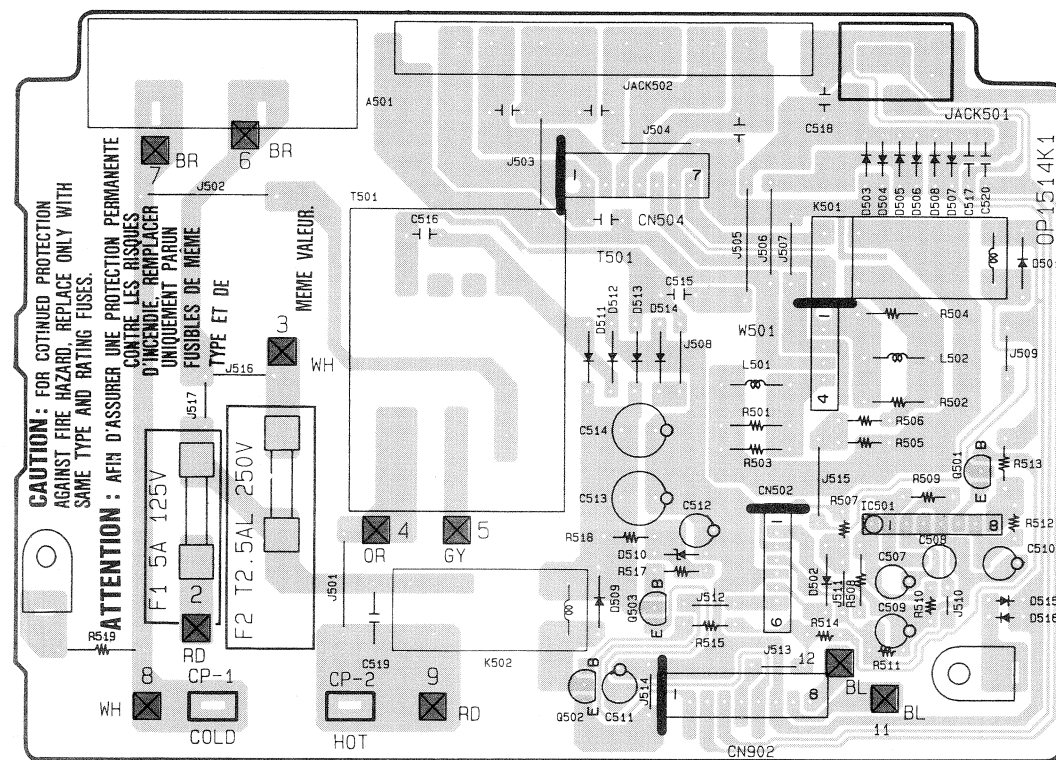


EXCEPT

(A or B : $4-16\Omega$, A and B : $8-16\Omega$)

+ L - - R +

A	SYSTEM
B	CONTROL



CAUTION: FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND RATING FUSES.


 BR
 7

EME VALEUR.

3

1

C424



 J402

 J404

 C419

 12

 C411

VR402

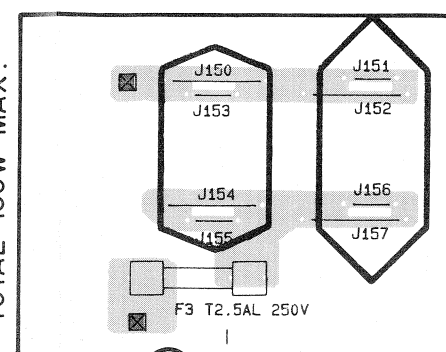
100

FRONT

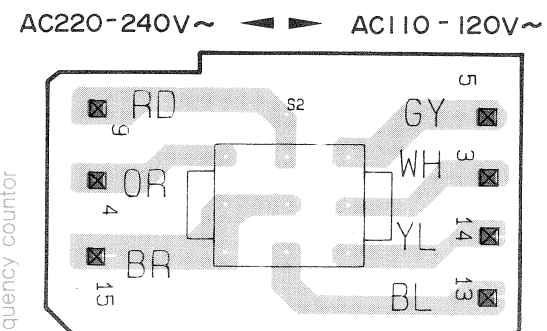
OP1515K1-00

 S917
POWER

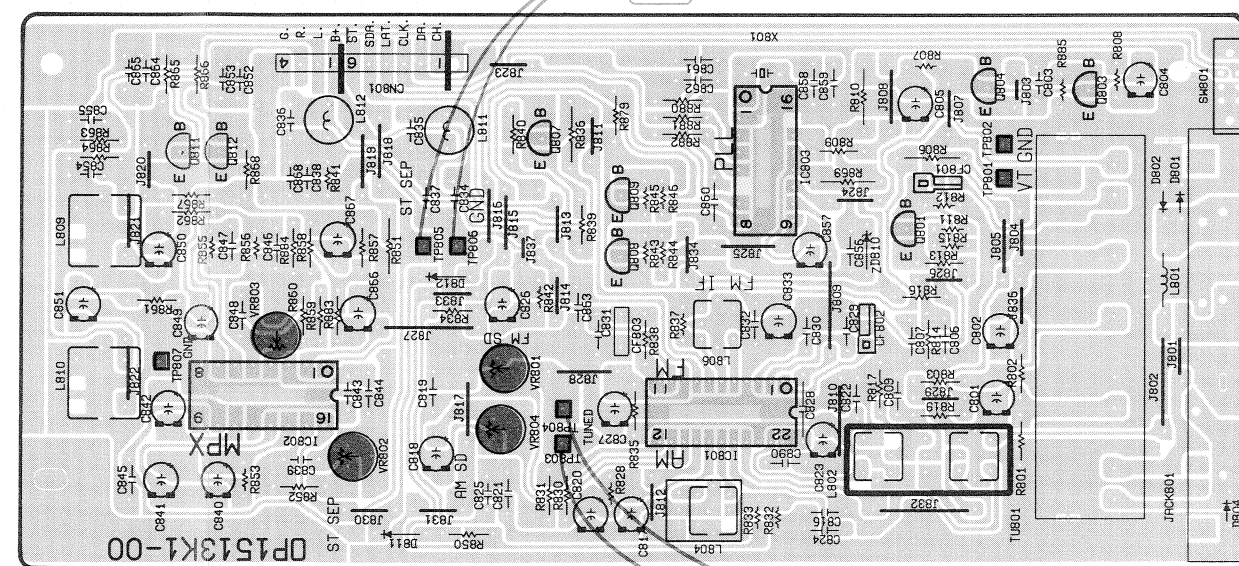
AC110-120V/220-240V~
50/60Hz
SWITCHED
TOTAL 150W MAX.



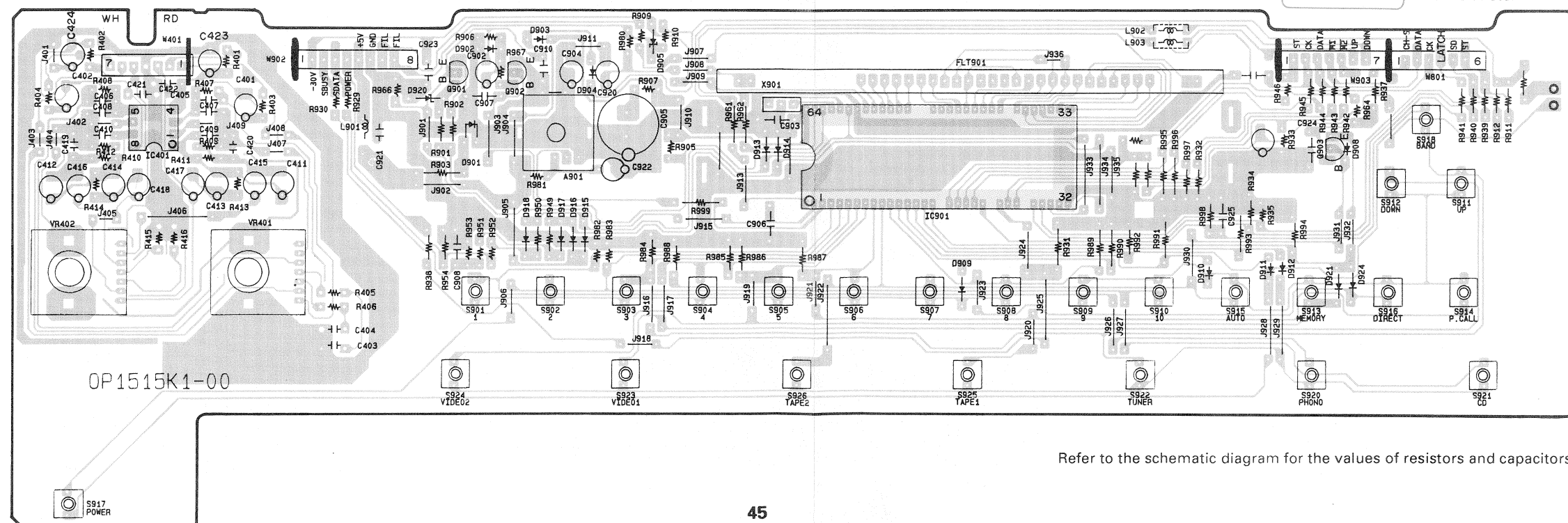
(b) VCO : 19.00kHz
Frequency counter



FM300Q 75µs 50µs
AM10KHz AM9KHz
FM100KHz FM50KHz
DE - EMPHASIS
CHANNEL SPACE

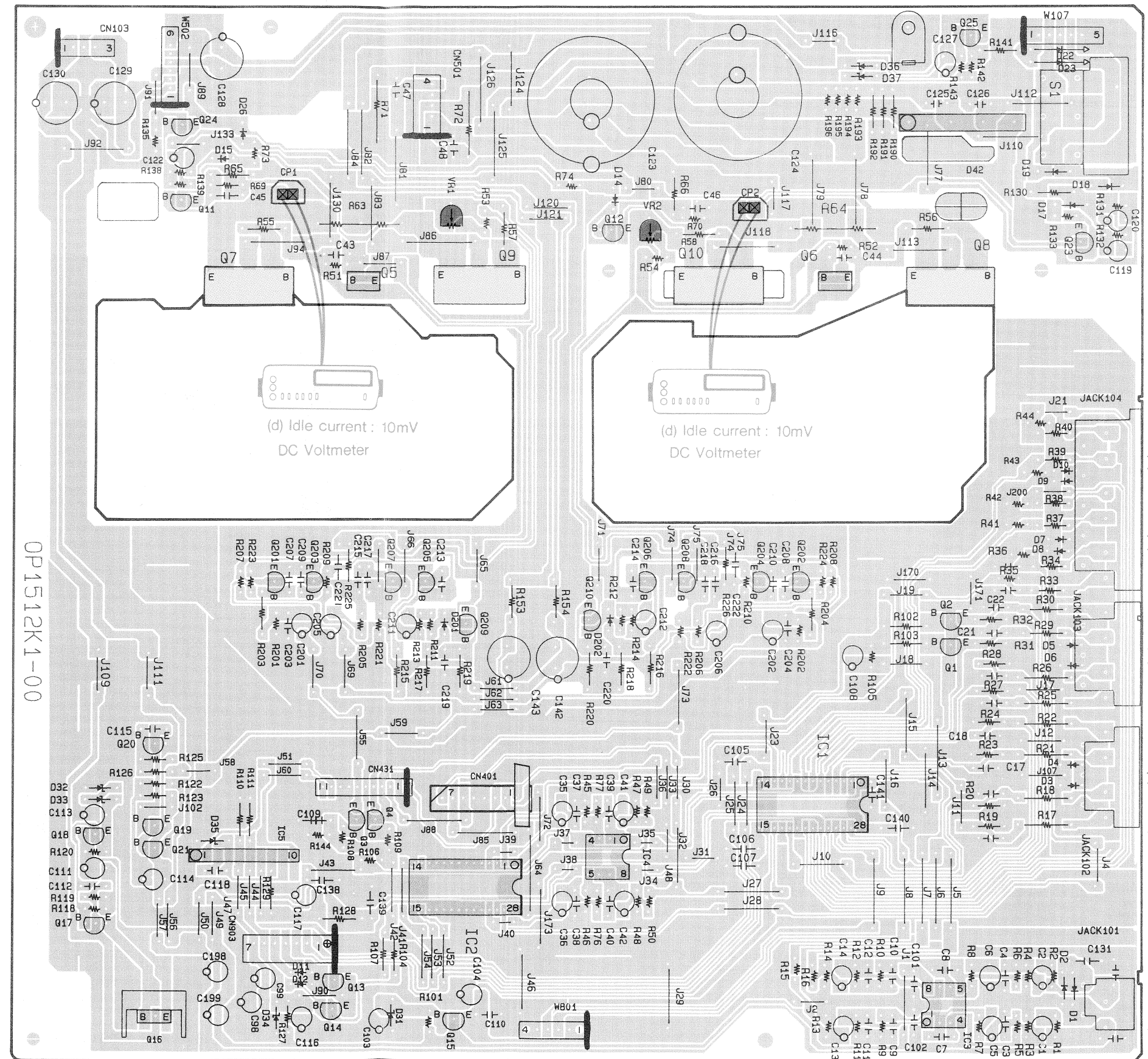


(a) Discriminator : 0V
DC Voltmeter



Refer to the schematic diagram for the values of resistors and capacitors.

7



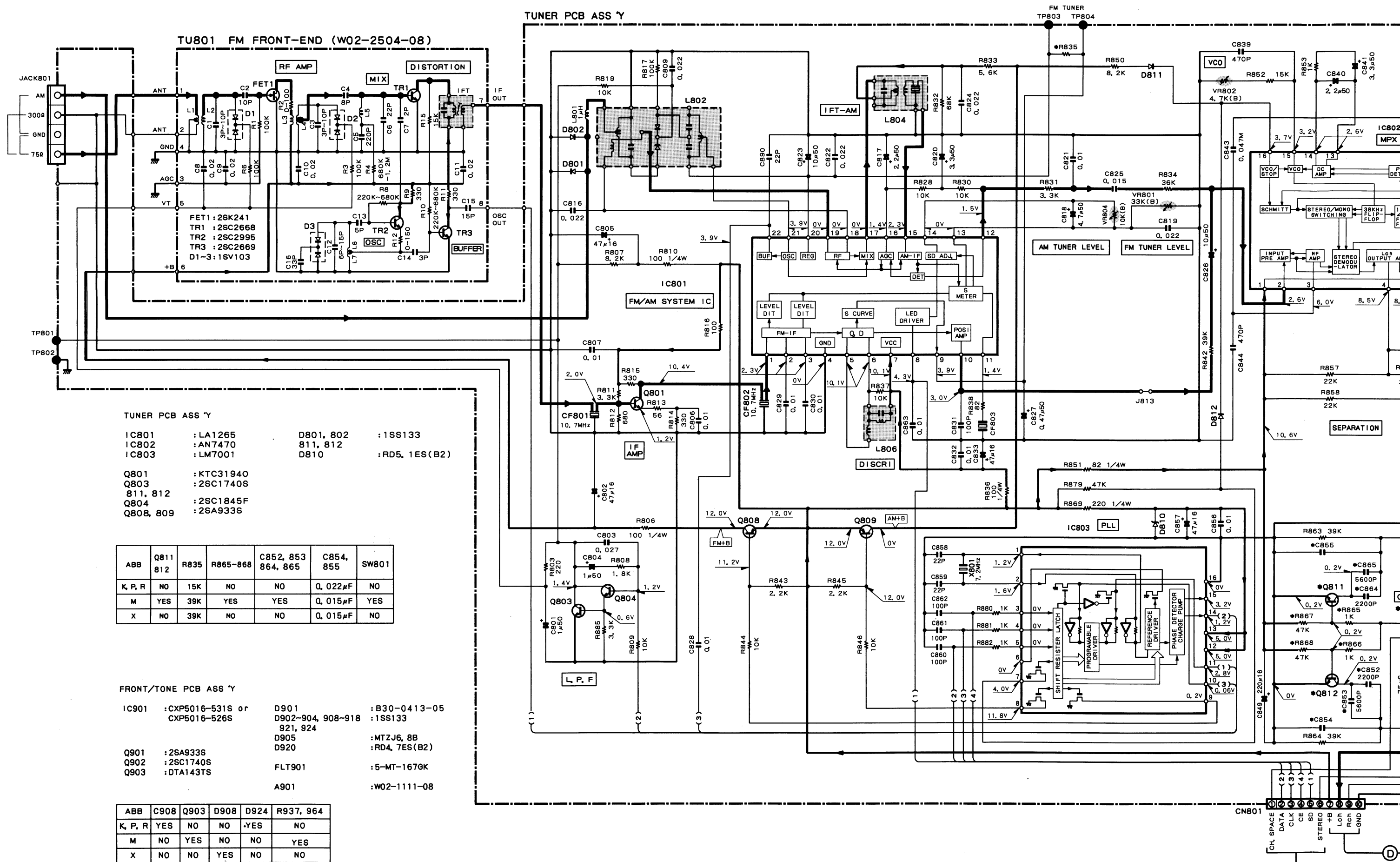
IMPEDANCE SELECTOR

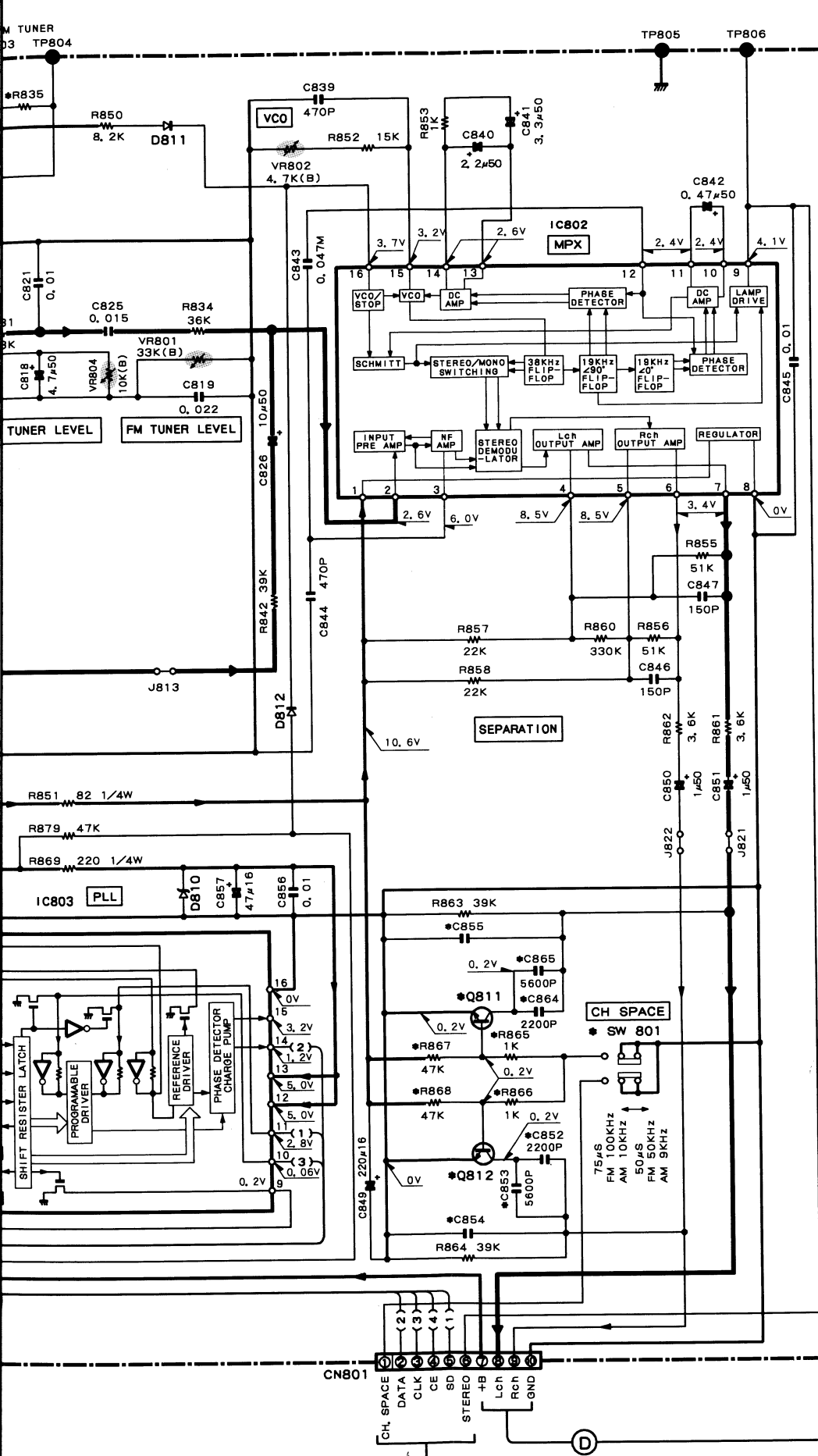
A or B : LESS THAN 8Ω A or B : 8Ω OR MORE

	CD	TAPE 1	TAPE 2	VIDEO 1	VIDEO 2
	INPUT	REC	(MONITOR)	PLAY	L
			REC	PLAY IN	R

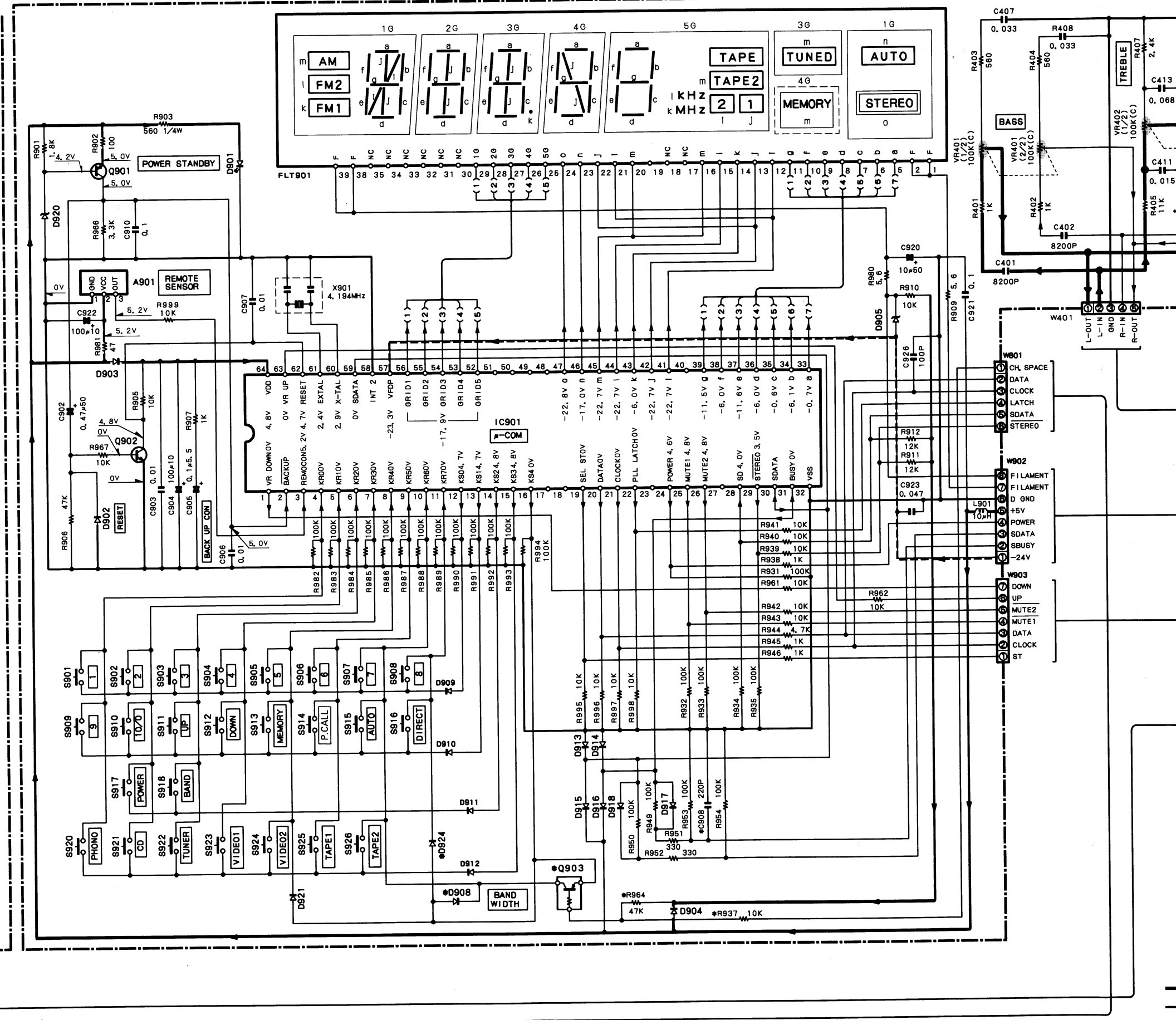
PHONO
INPUT

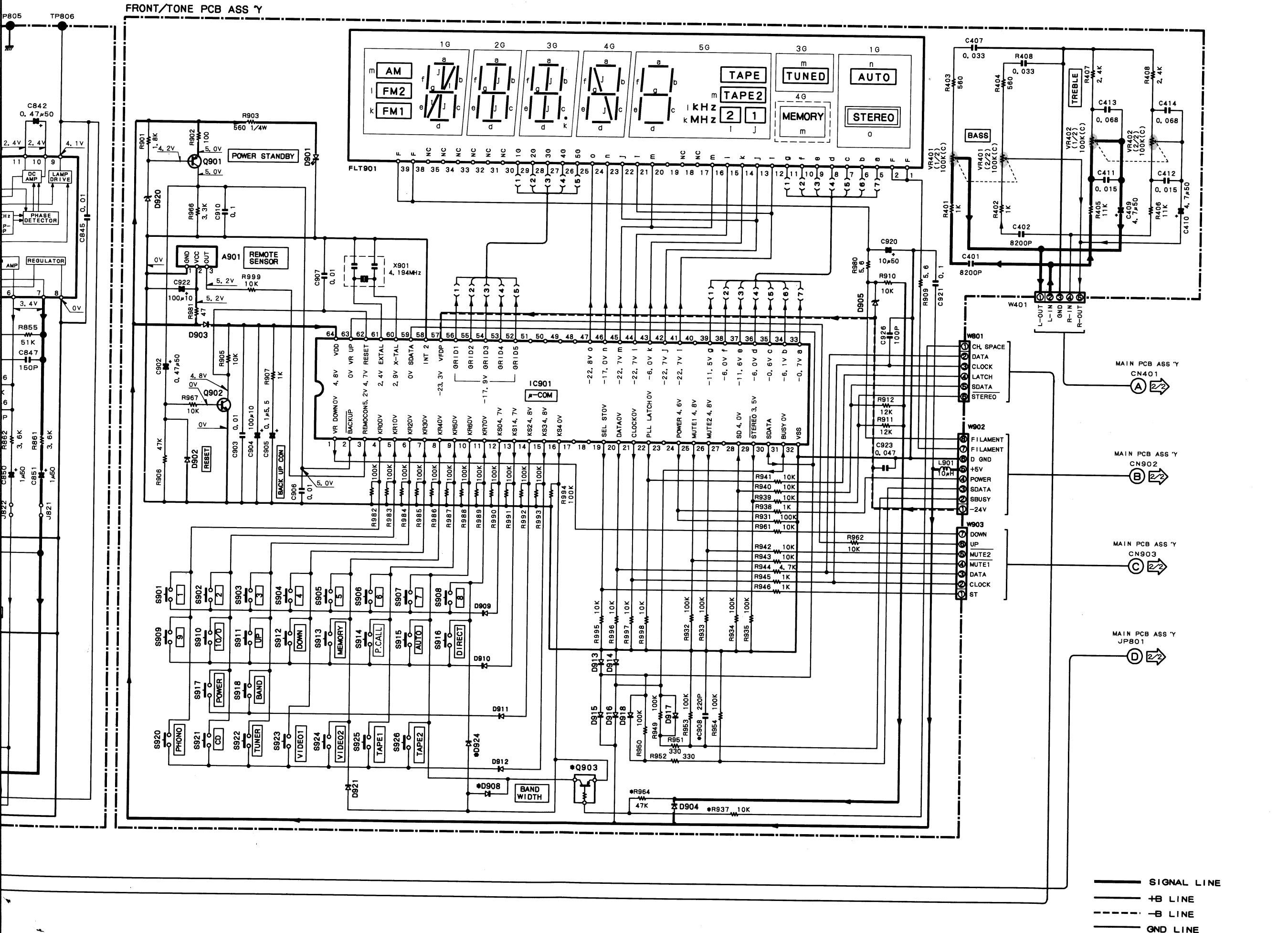
EXCEPTE





FRONT/TONE PCB ASS Y





- 2SA992

2SC1845

2SC2878
- 2SA1695
- DTA143TS

DTC114ES

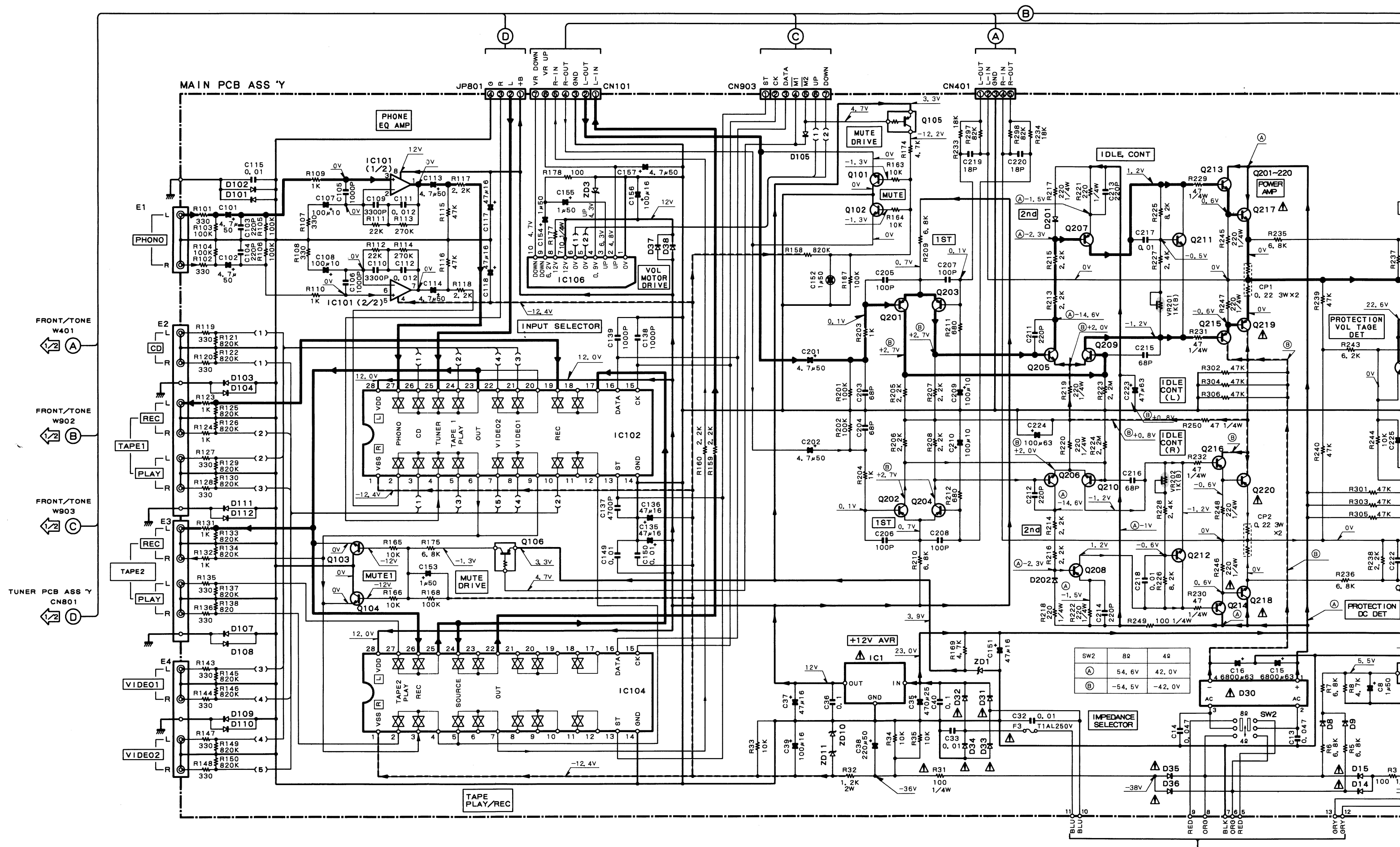
2SA933

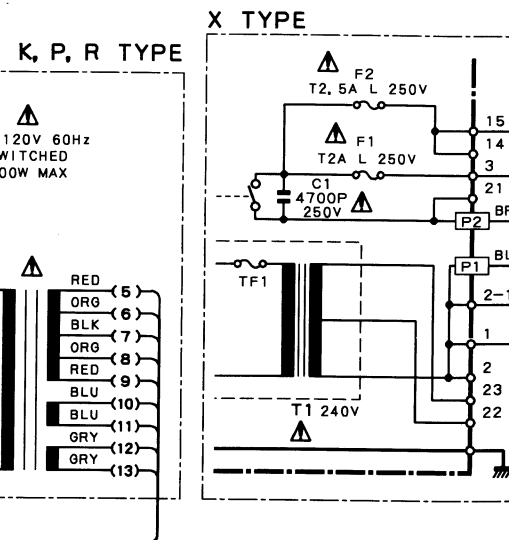
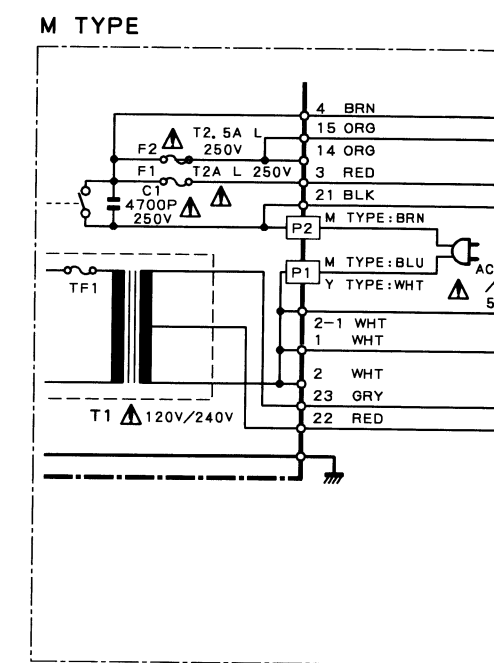
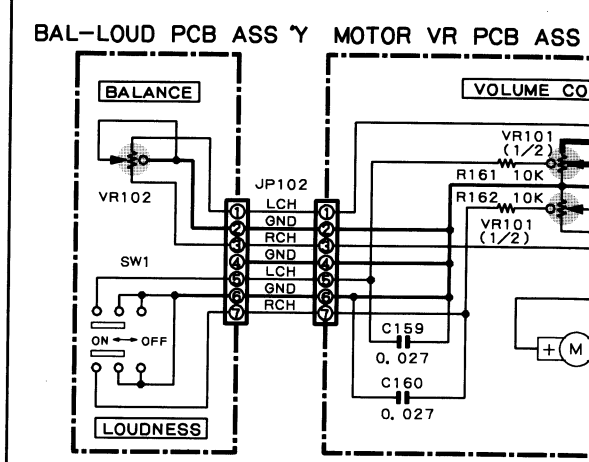
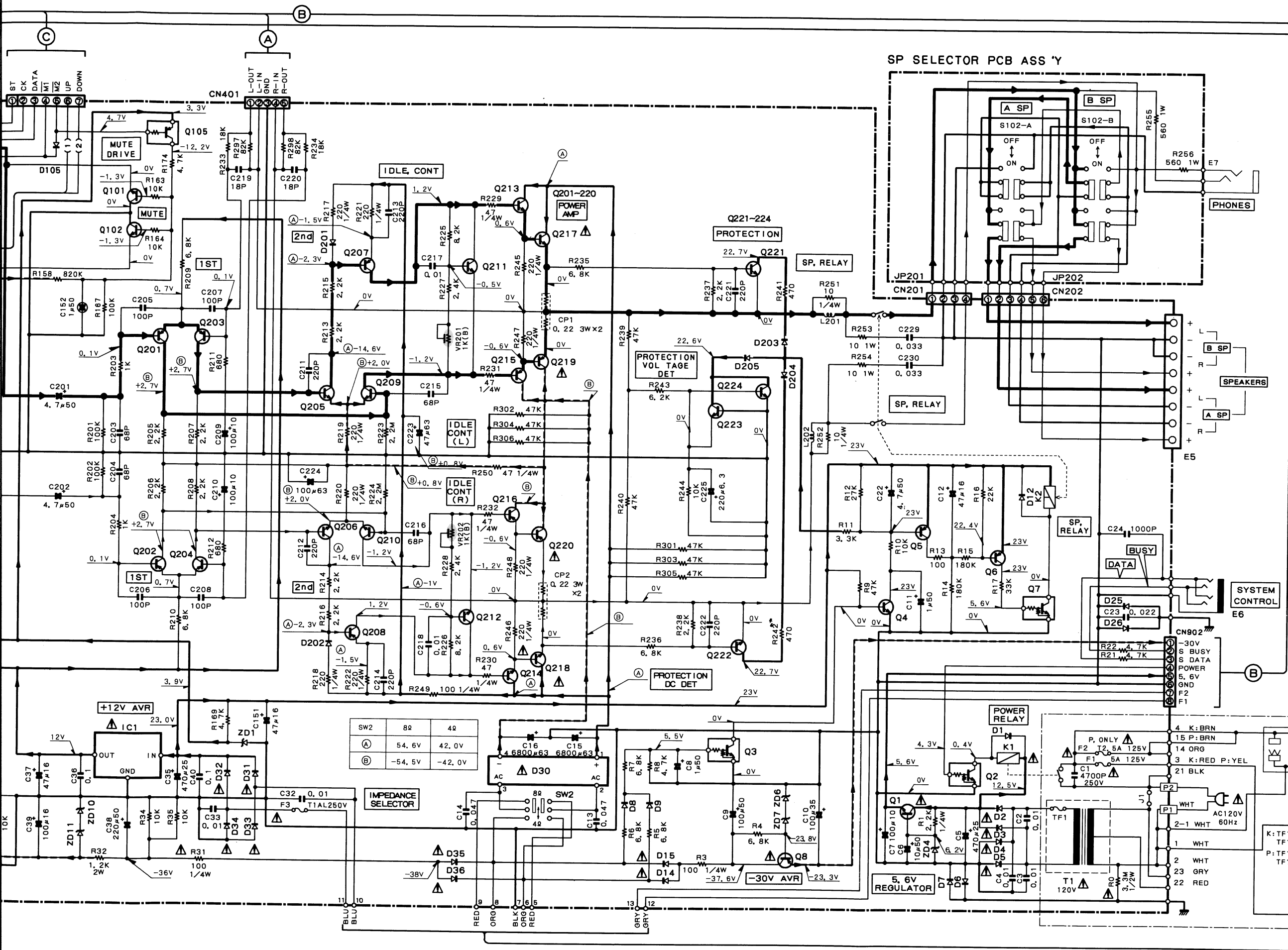
2SA933S

2SC1740S
- 2SC4137
- NJM4558DD
- LM7001

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

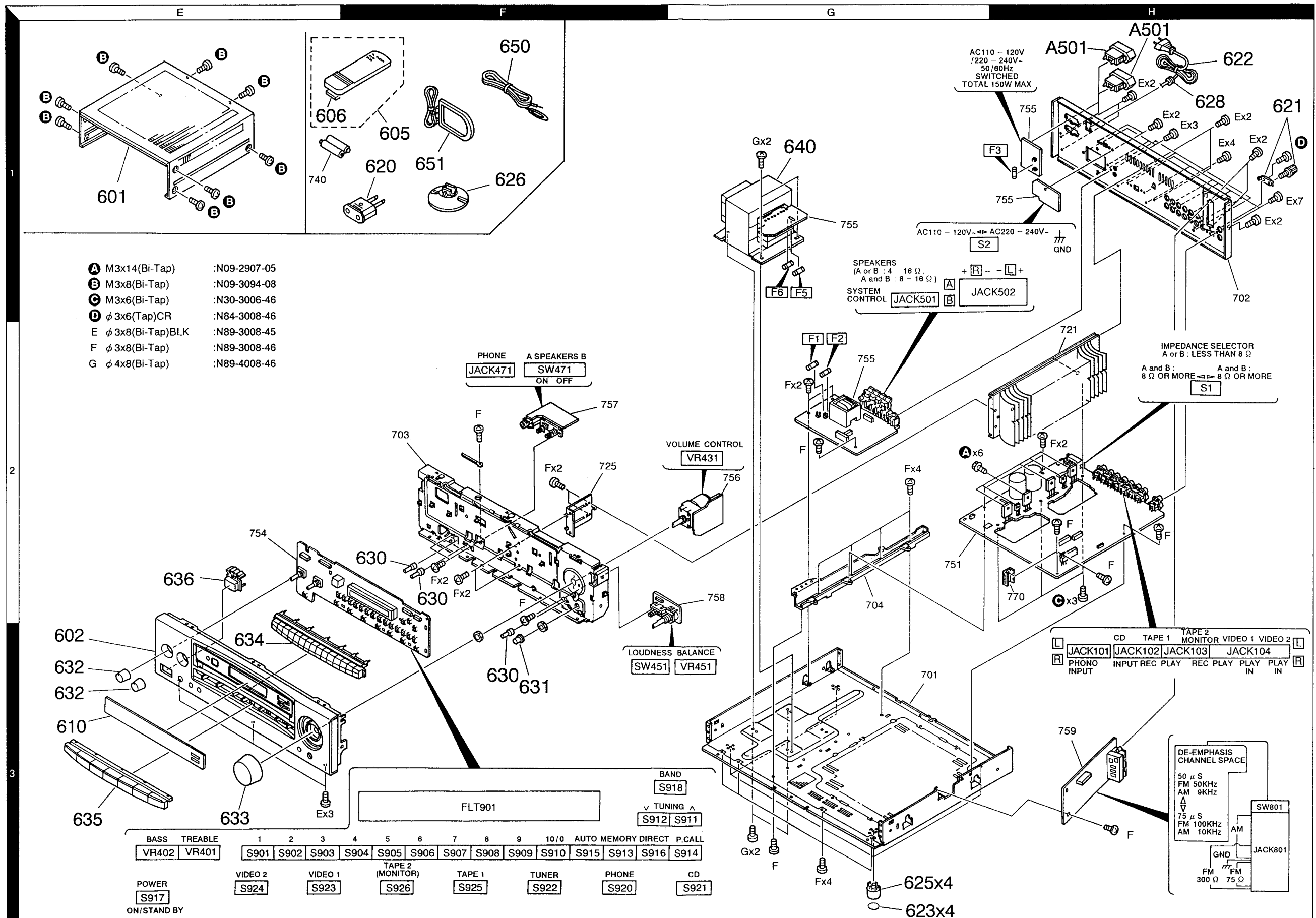
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.





KR-A5060 KR-A5060

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

1

Ref. No. 参照番号	Address 位置	New Parts 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
KR-A5060					
601	1E	A01-3060-08	METALLIC CABINET	MX	
601	1E	A01-3150-08	METALLIC CABINET	KPR	
602	3E	A60-0607-08	FRONT PANEL		
605	1F	A70-0985-08	REMOTE CONTROL ASSY		
606	1E	A09-0170-08	BATTERY COVER		
610	3E	B10-2040-08	FRONT GLASS		
-		B46-0092-23	WARRANTY CARD	K	
-		B46-0094-33	WARRANTY CARD	X	
-		B46-0121-33	WARRANTY CARD	P	
-		B60-1577-08	INSTRUCTION MANUAL (ENGLISH)	KXR	
-		B60-1578-08	INSTRUCTION MANUAL (ENG,FRE)	P	
-		B60-1579-08	INSTRUCTION MANUAL (ENG,CHI)	M	
-		B60-1580-08	INSTRUCTION MANUAL (ENGLISH)	ET	
-		B60-1581-08	INSTRUCTION MANUAL (FR,GU,NU)	E	
-		B60-1582-08	INSTRUCTION MANUAL (SPA,ITA)	E	
-		B60-1619-08	INSTRUCTION MANUAL (SPANISH)	MR	
620	1F	E03-0115-05	AC PLUG ADAPTER		
621	1H	E21-0023-08	GND TERMINAL	M	
622	1H	E30-0459-05	AC POWER CORD		
622	1H	E30-0974-05	AC POWER CORD	M	
622	1H	E30-1341-05	AC POWER CORD	KPR	
A501	1H	E03-0055-05	AC OUTLET	X	
A501	1H	E03-0144-08	AC OUTLET	M	
623	3G	G13-0267-08	CUSHION	KPR	
FOOT					
ITEM CATONBOX					
ITEM CATONBOX					
POLYSTYRENE FOAMED FIXTURE					
PROTECTION BAG (ACCESSORY)					
PROTECTION BAG (MANUAL)					
PROTECTION BAG (UNIT)					
625	3G	H50-1025-08	ITEM CATONBOX	KPR	
626	1F	H50-1026-08	ITEM CATONBOX	M	
628	1H	H10-5574-08	POLYSTYRENE FOAMED FIXTURE		
-		H25-0078-04	PROTECTION BAG (ACCESSORY)		
-		H25-0647-08	PROTECTION BAG (MANUAL)		
-		H25-1529-08	PROTECTION BAG (UNIT)		
630	2F, 3F	K27-2166-08	KNOB LOUDNESS, SPEAKERS		
631	3F	K29-4444-08	KNOB BALANCE		
632	3E	K29-5952-08	KNOB BASS, TREBLE		
633	3E	K29-5953-08	KNOB VOLUME		
634	3E	K29-5954-08	KNOB PRESET (10KEY)		
635	3E	K29-5955-08	KNOB FUNCTION		
636	2E	K29-5956-08	KNOB POWER		
640	1G	L07-0971-08	TRANSFORMER	KPR	
640	1G	L07-0972-08	TRANSFORMER	M	
640	1G	L07-0973-08	TRANSFORMER	X	
A	2G	N09-2907-05	BINDING HEAD TAPITTE SCREW		
B	1E	N09-3094-08	BINDING HEAD TAPITTE SCREW		
C	2H	N30-3006-46	SCREW		
D	1H	N84-3008-46	TAPITTE SCREW		
E	3E, 1H	N89-3008-45	BINDING HEAD TAPITTE SCREW		
F	2F, 2H	N89-3008-46	BINDING HEAD TAPITTE SCREW		

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3

Ref. No. 参照番号	Address 位置	New Parts 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
C215, 216		CC45CHI1H82J	8.2PF J		
C217, 218		CC45CHI1H350J	33PF J		
C219, 220		CC45CHI1H221J	220PF J		
C401, 402		CE04KW1H010M	1.00UF 50WV		
C403, 404		CQ92FM1H473J	0.047UF J		
C405, 406		CC45CHI1H221J	220PF J		
C407-410		CC45SL1H470J	47PF J		
C411-414		CE04KW1H010M	1.00UF 50WV		
C415-418		CE04KW1HR47M	0.47UF 50WV		
C419, 420		CQ92FM1H472J	4700PF J		
C421, 422		CK45F1H103M	0.010UF M		
C423, 424		CE04KW1C470M	47UF 16WV		
C432		CC45SL1H104J	0.10UF J		
C451, 452		CQ92FM1H273J	MYLAR		
C507		CE04KW1C220M	22UF 16WV		
C508		CE04KW1C220M	ELECTRØ		
C509		CE04KW1HR47M	4.7UF 16WV		
C510, 511		CE04KW1C330M	ELECTRØ		
C512		CE04KW1H010M	10UF 50WV		
C513, 514		CE04KW1E221M	ELECTRØ		
C515, 516		CK45F1H103M	CERAMIC		
C518		CK45F1H103M	CERAMIC		
C519		KHR-QM4726M6	CERAMIC		
C520		CK45CHI1H02J	CERAMIC		
C801		CE04KW1H010M	ELECTRØ		
C802		CE04KW1C470M	ELECTRØ		
C803		CQ92FM1H273J	MYLAR		
C804		CE04KW1H010M	ELECTRØ		
C805		CK45F1H103M	CERAMIC		
C806, 807		CK45F1H103M	ELECTRØ		
C809		CK45FF1H223Z	CERAMIC		
C816		CK45FF1H223Z	CERAMIC		
C817		CE04KW1HR22M	ELECTRØ		
C818		CE04KW1HR47M	ELECTRØ		
C819		CK45FF1H223Z	CERAMIC		
C820		CE04KW1HR3M	ELECTRØ		
C821		CK45F1H103M	CERAMIC		
C822		CK45FF1H223Z	CERAMIC		
C823		CE04KW1H010M	ELECTRØ		
C824		CK45FF1H223Z	CERAMIC		
C825		CQ92FM1H153J	MYLAR		
C826		CE04KW1H010M	ELECTRØ		
C827		CE04KW1HR47M	ELECTRØ		
C828-830		CK45F1H103M	CERAMIC		
C831		CC45CHI1H101J	CERAMIC		
C832		CK45F1H103M	CERAMIC		
C833		CE04KW1C470M	ELECTRØ		
C839		CQ09FS1H471J	POLYSTY		
C840		CE04KW1H2R2M	ELECTRØ		
C841		CE04KW1H3R3M	ELECTRØ		
C842		CE04KW1HR47M	ELECTRØ		
C843		CQ92FM1H473J	MYLAR		
C844		CK45PB1H471K	CERAMIC		
C845		CK45F1H103M	CERAMIC		
C846, 847		CC45SL1H151K	CERAMIC		

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PARTS LIST

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2

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G	1G, 3G	N89-4008-46	BINDING HEAD TAPITTE SCREW		
650	1F	T90-0182-05	T TYPE ANTENNA		
651	1F	T90-0184-08	LOOP ANTENNA		
ELECTRIC PARTS					
D901		B30-0413-05	LED (LTL4213(RED)POWER)		
C1, 2		CE04KW1H100M	ELECTRØ		
C3, 4		CC45CHI1H221J	CERAMIC		
C5		CE04KW1A101M	ELECTRØ		
C7, 8		CK45CHI1H02J	CERAMIC		
C9, 10		CQ92FM1H123J	MYLAR		
C11, 12		CQ92FM1H332J	MYLAR		
C13, 14		CC45CHI1H221J	ELECTRØ		
C17, 18		CC45CHI1H221J	CERAMIC		
C21, 22		CC45CHI1H221J	CERAMIC		
C31-36		CE04KW1H010M	ELECTRØ		
C37-40		CC45SL1H101J	CERAMIC		
C41, 42		CE04KW1HR47M	ELECTRØ		
C43-46		CC45SL1H103K	CERAMIC		
C47, 48		CQ92FM1H393J	MYLAR		
C98, 99		CE04KW1HR47M	ELECTRØ		
C101, 102		CC45SL1H103K	CERAMIC		
C103		CE04KW1C470M	ELECTRØ		
C104		CE04KW1H100M	ELECTRØ		
C105		CK45CHI1H02J	CERAMIC		
C106, 107		CC45SL1H331K	CERAMIC		
C108		CE04KW1H010M	ELECTRØ		
C110		CC45SL1H103K	CERAMIC		
C111		CE04KW1H220M	ELECTRØ		
C112		CK45CHI1H52J	CERAMIC		
C113		CE04KW1C470M	ELECTRØ		
C114		CE04KW1H220M	ELECTRØ		
C115		CK45CHI1H02J	CERAMIC		
C116		CE04KW1A101M	ELECTRØ		
C117		CE04KW1C470M	ELECTRØ		
C118		CK45FF1H104J	CERAMIC		
C119, 120		CE04KW2A2R2M	ELECTRØ		
C121		CE04KW1H100M	ELECTRØ		
C122		CE04KW2A100M	ELECTRØ		
C123, 124		C90-3565-08	ELECTRØ		
C125, 126		CC45FSL2H103Z	CERAMIC		
C127		CE04KW1J470M	ELECTRØ		
C128-130		CE04KW1V471M	ELECTRØ		
C131		CK45SL1H103K	CERAMIC		
C138-141		CC45SL1H103K	CERAMIC		
C142, 143		CE04KW2A470M	ELECTRØ		
C145, 146		CC45FSL2H103Z	CERAMIC		
C198, 199		CE04KW1H220M	ELECTRØ		
C201, 202		CE04KW1H010M	ELECTRØ		
C203, 204		CC45CHI1H01J	CERAMIC		
C205, 206		CE04KW1A101M	ELECTRØ		
C207-210		CC45CHI1H01J	CERAMIC		
C211, 212		CE04KW2A010M	ELECTRØ		
C213, 214		CC45SL1H330J	CERAMIC		

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4

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C849		CE04KW1C221M	ELECTRØ		
C850, 851		CE04KW1H010M	ELECTRØ		
C852		CQ92FM1H222J	MYLAR		
C853		CQ92FM1H562J	MYLAR		
C854, 855		CQ92FM1H153J	MYLAR		
C854, 855		CQ92FM1H223J	MYLAR		
C856		CK45F1H103M	CERAMIC		
C857		CE04KW1C470M	ELECTRØ		
C858, 859		CC45CHI1H20J	CERAMIC		
C860-862		CC45CHI1H01J	CERAMIC		
C863		CK45F1H103M	CERAMIC		
C864		CQ92FM1H222J	MYLAR		
C865		CQ92FM1H562J	MYLAR		
C890		CC45CHI1H20J	CERAMIC		
C902		CE04KW1HR47M	ELECTRØ		
C903		CK45F1H103M	CERAMIC		
C904		CE04KW1A101M	ELECTRØ		
C905		C90-1827-05	BACKUP		
C906, 907		CK45F1H103M	CERAMIC		
C908		CC45CHI1H221J	CERAMIC		
C909		CE04KW1HR47M	ELECTRØ		
C910		CK45FF1H104Z	CERAMIC		
C921		CE04KW1H010M	ELECTRØ		
C922		CE04KW1A101M	ELECTRØ		
C923		CK45SL1H473K	CERAMIC		
C925		CC45SL1H223K	CERAMIC		
A501	1D	B03-0144-08	AC OUTLET		
JACK101		E70-0035-08	TERMINAL BOARD PHONO		
JACK102		E70-0036-08	TERMINAL BOARD CD, TAPE1 REC		
JACK103		E70-0036-08	TERMINAL BOARD TAPE1 PLAY, TAPE2		
JACK104		E63-0118-08	TERMINAL BOARD TAPE2, VIDEO1,2		
JACK471		E11-0263-08	PHONE JACK		
JACK501		E11-0188-05	PHONE JACK SYNCHRO		
JACK502		E70-0004-08	TERMINAL BOARD SPEAKERS		
JACK801		E70-0005-08	TERMINAL BOARD ANTENNA		
F1		F04-5022-05	FUSE UL/CSA 5A(125V)		
F1		F05-2525-05	FUSE T2, 5A(250V)		
F1		F06-2525-05	FUSE UL/CSA 2.5A(125V)		
F5, 6		F05-5016-05	FUSE 0.5A(250V)		
F5, 6		F50-0049-08	FUSE UL/CSA 0.5A(250V)		
F1, 2, 3		F05-2525-05	FUSE T2, 5A(250V)		
-		J13-0084-08	FUSE HOLDER		
-		J13-0084-08	FUSE HOLDER		
CF801, 802		L72-0531-05	CERAMIC FILTER		
CF803		L72-0096-05	CERAMIC FILTER		
L501, 502		L39-0085-05	COIL		
L801		L40-1091-17	SMALL FIXED INDUCTØR 1UH		
L802		L39-0189-05	COIL		
L804		L30-0488-05	IFT-AM		
L806		L30-0439-05	IFT-FM		
L901		L40-1001-17	SMALL FIXED INDUCTØR 10UH		
TS01		L07-0778-08	TRANS FORMER		

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T501		L07-0789-08	TRANS FORMER	X	
T501		L07-0790-08	TRANS FORMER	M	
X801		L77-1122-05	CRYSTAL RESONATOR 7.2MHz		
X901		L78-0209-05	RESONATOR 4.19MHz		
F	2D	N89-3008-46	BINDING HEAD TAPITE SCREW		
R55-58		RD14GB2E220J	FL-PR00F RD 22 J 1/4W		
R63-64		R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R65-66		RD14GB2E332J	FL-PR00F RD 3.3K J 1/4W		
R71-72		RN14BK3A100J	RN 10 J 1W		
R115		RD14GB2E010J	FL-PR00F RD 1.0 J 1/4W		
R116,117		RN14BK3D680J	RN 68 J 2W		
R121		RD14GB2E010J	FL-PR00F RD 1.0 J 1/4W		
R128		RD14GB2E101J	FL-PR00F RD 100 J 1/4W		
R129		RD14GB2E100J	FL-PR00F RD 10 J 1/4W		
R130		RD14GB2E101J	FL-PR00F RD 100 J 1/4W		
R141		RD14GB2E101J	FL-PR00F RD 100 J 1/4W		
R153,154		RD14GB2E470J	FL-PR00F RD 47 J 1/4W		
R215,216		RD14GB2E151J	FL-PR00F RD 150 J 1/4W		
R217-220		RD14GB2E221J	FL-PR00F RD 220 J 1/4W		
R471,472		RN14BK3A561J	RN 560 J 1W		
R501-504		RD14GB2E220J	FL-PR00F RD 22 J 1/4W		
R519		RD14GB2H335J	RD 3.3M J 1/2W	KPR	
R806		RD14GB2E101J	FL-PR00F RD 100 J 1/4W		
R810		RD14GB2E101J	FL-PR00F RD 100 J 1/4W		
R836		RD14GB2E101J	FL-PR00F RD 100 J 1/4W		
R851		RD14GB2E220J	FL-PR00F RD 82 J 1/4W		
R869		RD14GB2E221J	FL-PR00F RD 220 J 1/4W		
VR1-2		R12-1066-05	TRIMMING POT. IDLE ADJ. 1K		
VR401,402		R39-0003-08	POTENTIOMETER BASS TREBLE 10KB		
VR431		R39-0001-08	POTENTIOMETER VOLUME 100KB X3		
VR451		R10-5071-08	POTENTIOMETER BALANCE		
VR801		R12-3166-08	TRIM POT. 33KB FM TUNE LEVEL		
VR802		R12-1053-05	TRIM POT. 4.7KB VC0		
VR804		R12-3071-05	TRIM POT. 10KB AM TUNE LEVEL		
K501		S51-2092-05	MAGNETIC RELAY POWER		
S1		S76-0032-08	MAGNETIC RELAY SPEAKER		
S2		S62-0032-08	SLIDE SWITCH IMPEDANCE SEL		
S901-926		S31-3010-05	SLIDE SWITCH VOLTAGE SELECT	M	
SW451		S70-0030-08	TACT SWITCH KEY BOARD		
SW471		S68-0040-08	PUSH SWITCH LOUNDNESS		
SW801		S62-0033-08	PUSH SWITCH SPEAKERS	M	
D1-12		S62-0012-08	SLIDE SWITCH CH. SPACE		
D14-15		1SS131	DIODE		
D17-19		1SS131	DIODE		
D22-23		1SS131	DIODE		
D26		1N4002	DIODE		
D31		1SS131	DIODE		
D32		RD13ES(B2)	ZENER DIODE		
D33		MTZJ6.2B	ZENER DIODE		
D34		MTZJ6.2B	ZENER DIODE		
D35		MTZJ3.9B	ZENER DIODE		
D36-37		RD5.1ES(B2)	ZENER DIODE		
		MTZ12B(B2)	ZENER DIODE		

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D42		DSFB20	DIODE		
D43-46		1N4002	DIODE		
D201-202		1SS133	DIODE		
D501-502		1N4002A	DIODE		
D503-508		1SS133	DIODE		
D509		1N4002A	DIODE		
D510		MTZJ6.2B	ZENER DIODE		
D511-514		1N4002A	DIODE		
D515-516		1SS133	DIODE		
D801-802		1SS133	DIODE		
D810		RD5.1ES(B2)	ZENER DIODE		
D811-812		1SS133	DIODE		
D902-904		1SS133	DIODE		
D905		MTZJ6.8B	ZENER DIODE		
D908		1SS133	ZENER DIODE		
D909-918		1SS133	DIODE		
D920		RD4.7ES(B2)	ZENER DIODE		
D921		1SS133	DIODE		
D924		1SS133	DIODE		
FL901		5-WT-1670K	FLUORESCENT INDICATOR TUBE		
IC1		TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC2		TC9162N	IC(ANALOG SWITCH ARRAY)		
IC3-4		NJM45650D	IC(OP AMP X2)		
IC5		BA6209N	IC(MOTOR DRIVER)		
IC401		NJM45650D	IC(OP AMP X2)		
IC501		UPC1237HA	IC(POWER AMP)		
IC801		LA1265	IC(EM/AM TUNER)		
IC802		AN7470	IC(EM MPX)		
IC803		LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC810		UPC78L05	IC(VOLTAGE REGULATOR +5V)		
IC901		CXP5016-526S	IC(4bit MICROPROCESSOR)		
IC901		CXP5016-531S	IC(4bit MICROPROCESSOR)		
Q1-4		2SC2878B	TRANSISTOR		
Q5-6		2SC4137	TRANSISTOR		
Q7-8		2SD2222	TRANSISTOR		
Q9-10		2SB1470	TRANSISTOR		
Q11-12		2SC1845F	TRANSISTOR		
Q13-14		DTA114TS	DIGITAL TRANSISTOR		
Q15		2SC2235Y	TRANSISTOR		
Q16		2SC1845F	TRANSISTOR		
Q17-18		2SA992F	TRANSISTOR		
Q19-20		2SC1740S	TRANSISTOR		
Q21		2SA933S	TRANSISTOR		
Q23		2SC2235Y	TRANSISTOR		
Q24		2SC1845F	TRANSISTOR		
Q25		2SA992F	TRANSISTOR		
Q201-204		2SB1274	TRANSISTOR		
Q205-208		2SA992F	TRANSISTOR		
Q209-210		2SC1845F	TRANSISTOR		
Q501-502		2SC2316(Y)	TRANSISTOR		
Q503		2SD0882	TRANSISTOR		
Q801		2SC3194Q	TRANSISTOR		
Q803		2SC1740S	TRANSISTOR		
Q804		2SC1845F	TRANSISTOR		
Q808-809		2SA933S	TRANSISTOR		

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R: Mexico

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T: England

G: Germany

Y: AAFFES (Europe)

X: Australia

M: Other Areas

L: Scandinavia

K: USA

P: Canada

R: Mexico

KR-A5060

PARTS LIST

EXCEPT E,T

7

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

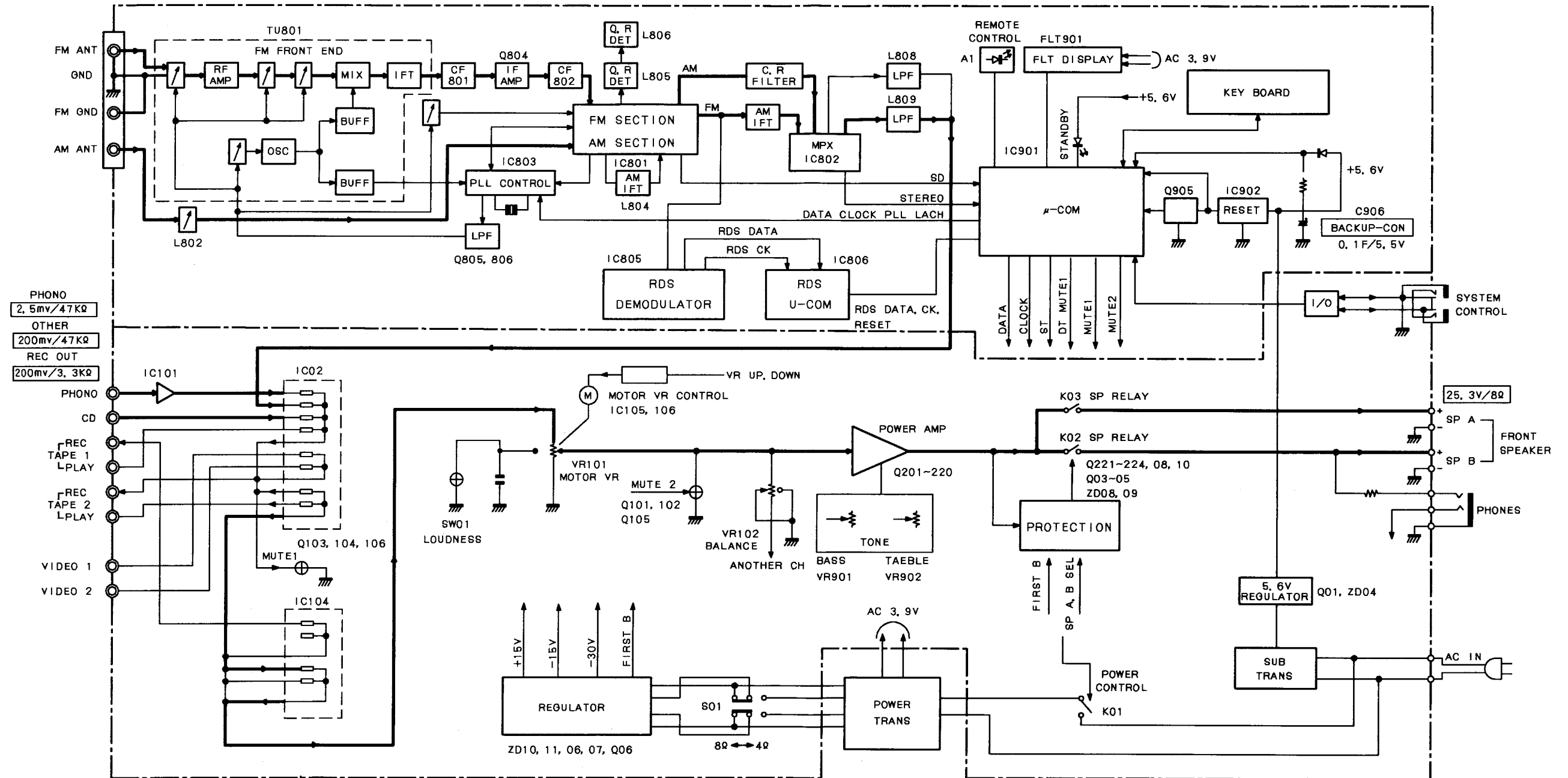
Ref. No. 参照番号	Address 位置	Parts New 部品新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
Q811,812 Q901 Q902 Q903			2SC1740S 2SA933S 2SC1740S DTA143TS	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	M	
A901 T0801			W02-1111-08 W02-1042-05	ELECTRIC CIRCUIT MODULE FM FRONT END UNIT	M KPMXR	

L: Scandinavia K: USA P: Canada R: Mexico
Y: PX (Far East, Hawaii) T: England E: Europe G: Germany
Y: AAFES (Europe) X: Australia M: Other Areas

⚠ indicates safety critical components.

KR-A4060/A5060 KR-A4060/A5060

BLOCK DIAGRAM



KR-A4060/A5060
ADJUSTMENT

AM section : If alignment point is "-", confirm the value. If not, replace the front end pack.

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		SELECTOR : FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 60dBμ (ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L805 (TUNER UNIT)	0V.	(a)
2	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev. 60dBμ (ANT. input)	Connect a Distortion meter (1kHz)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	Minimum distortion. (L or R)	
3	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev. 60dBμ (ANT. input)	Connect a DC voltmeter between TP801 and TP802. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V.	(a)
4	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6.0kHz dev. 60dBμ (ANT. input)	(B)	98.0MHz	IFT (Front end pack)	Minimum distortion. (L or R)	
5	SEPARATION	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6.0kHz dev. 60dBμ (ANT. input)	(B)	AUTO 98.0MHz	VR803 (TUNER UNIT)	Minimum cross talk.	
6	TUNING LEVEL	(A) 98.0MHz 0 dev. 17dBμ (ANT. input)	(B)	AUTO or MONO 98.0MHz	VR802 (TUNER UNIT)	Adjust VR802 and stop at the point where FLT901 (TUNED) goes on.	
AM SECTION		SELECTOR : AM					
(1)	TUNING LEVEL	(D) 999MHz 26dBμ (ANT. input)	(B)	—	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901 (TUNED) goes on.	
AUDIO SECTION							
<1>	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR201 (L) VR202 (R) (AUDIO UNIT)	10mV	

KR-A4060/A5060
AJUSTES

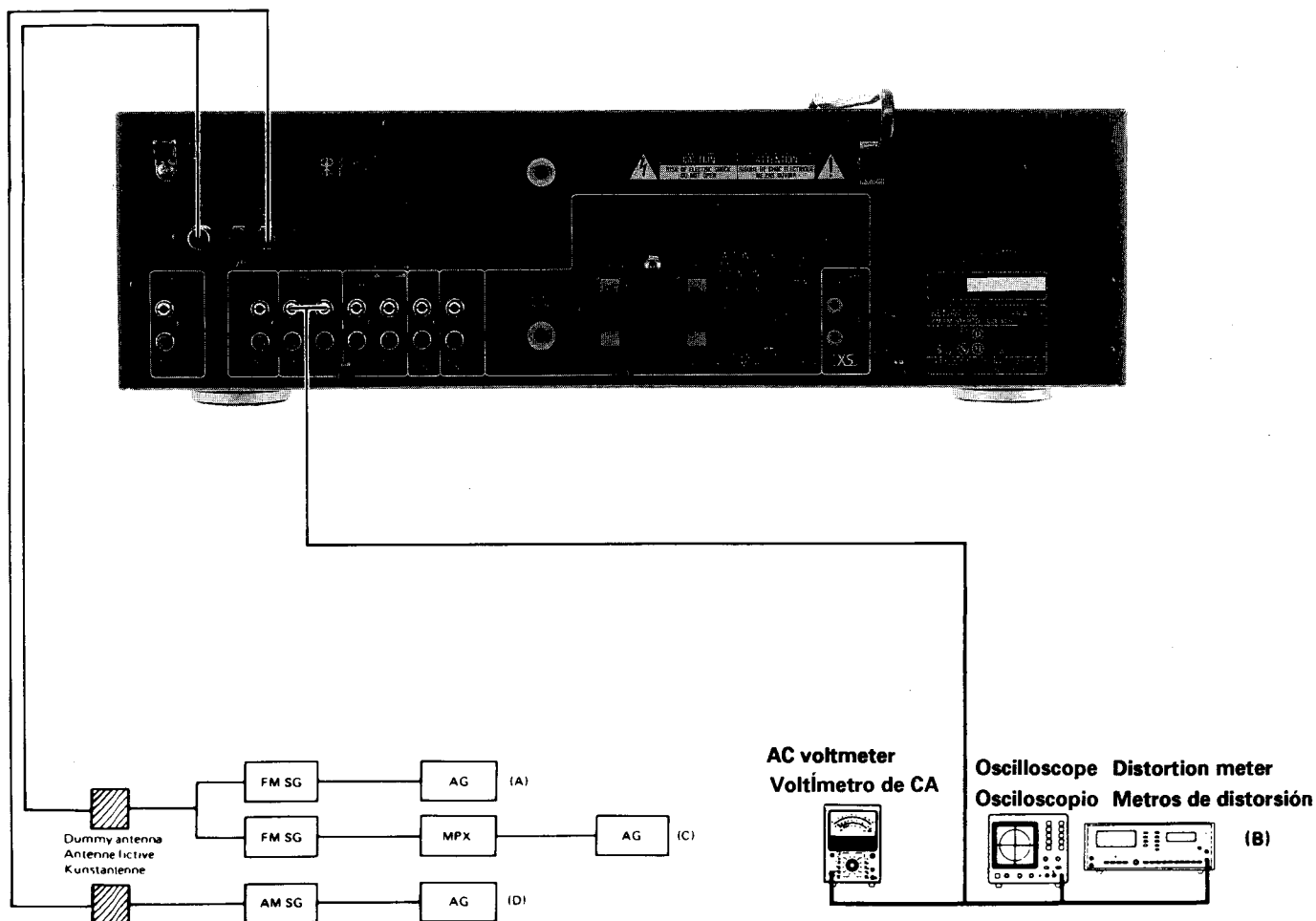
Sección de AM : Si el punto de alineación es "-", confirme el valor. Si no, reemplace el paquete de entrada.

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
SECCIÓN DE FM		SELECTOR : FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 60dBμ (Entrada de antena)	Conecte un voltímetro de CC entre TP801 y TP802. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L805 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
2	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev. 60dBμ (Entrada de antena)	Conecte un medidor de Distorsión. (1kHz)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	Distorsión mínima. (L o R)	
3	DISCRIMINATOR	(C) 98.0MHz 1kHz, ±40kHz dev. 60dBμ (Entrada de antena)	Conecte un voltímetro de CC entre TP801 y TP802. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
4	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L o R Piloto : ±6.0kHz dev. 60dBμ (Entrada de antena)	(B)	98.0MHz	IFT (Paquete de entrada)	Distorsión mínima. (L o R)	
5	SEPARACIÓN	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L o R Piloto : ±6.0kHz dev. 60dBμ (Entrada de antena)	(B)	AUTO 98.0MHz	VR803 (UNIDAD DEL SINTONIZADOR)	Diafonía mínima.	(b)
6	NIVEL DE SINTONÍA	(A) 98.0MHz 0 dev. 17dBμ (Entrada de antena)	(B)	AUTO o MONO 98.0MHz	VR802 (UNIDAD DEL SINTONIZADOR)	Ajuste VR802 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AM		SELECTOR : AM					
(1)	NIVEL DE SINTONÍA	(D) 999MHz 26dBμ (Entrada de antena)	(B)	—	VR801 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AUDIO							
<1>	CORRIENTE EN REPOSO	—	Conecte un voltímetro de CC entre CP1 (L) y CP2 (R) (UNIDAD PRINCIPAL)	Volumen : 0	VR201 (L) VR202 (R) (UNIDAD AUDIO)	10mV	

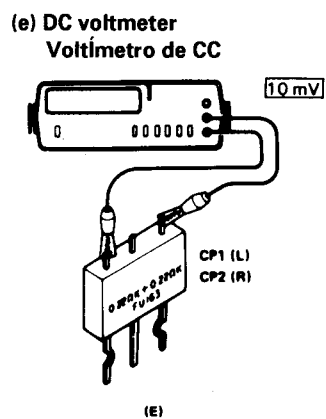
KR-A4060/A5060

ADJUSTMENT/AJUSTES

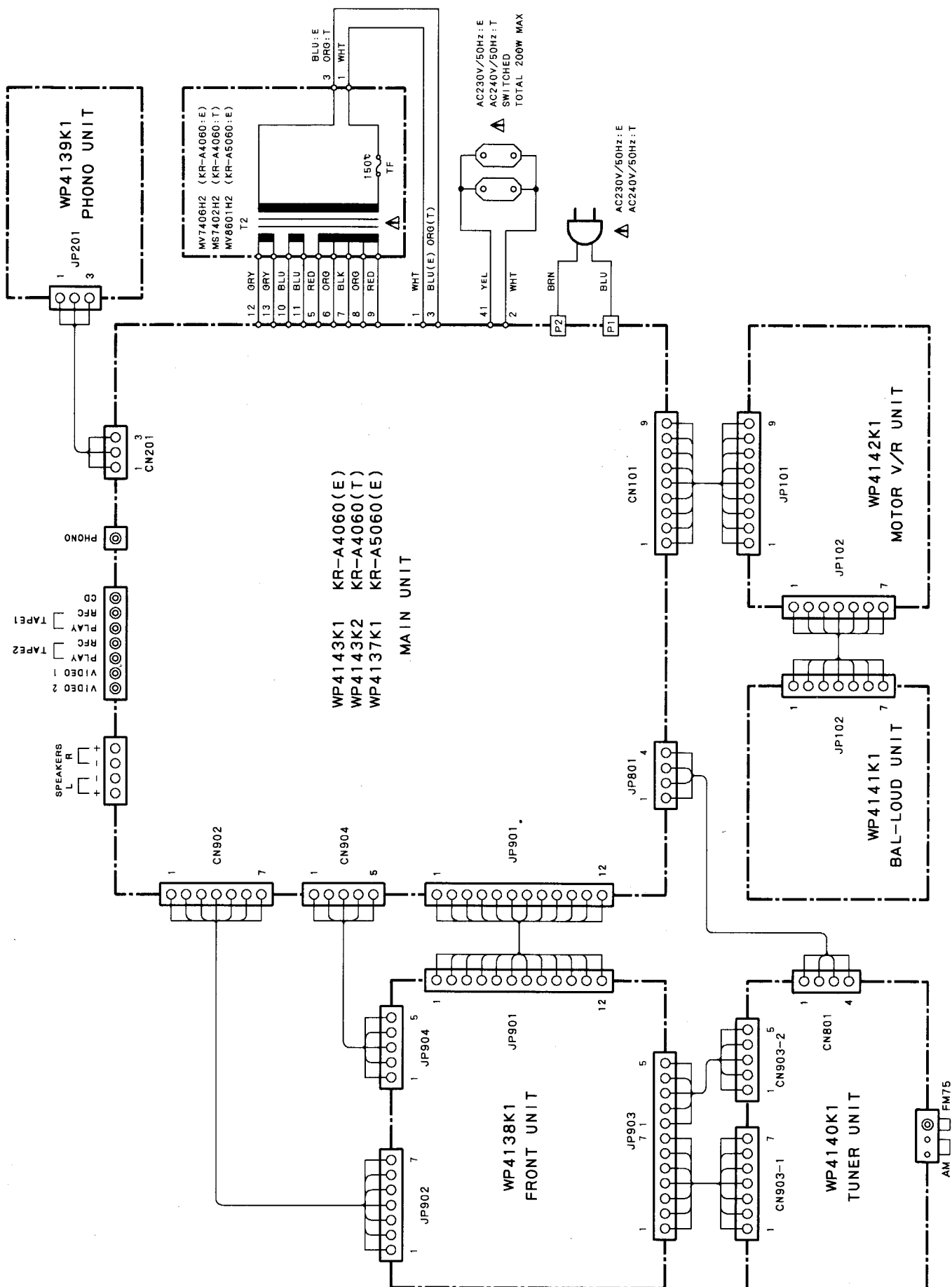
SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA



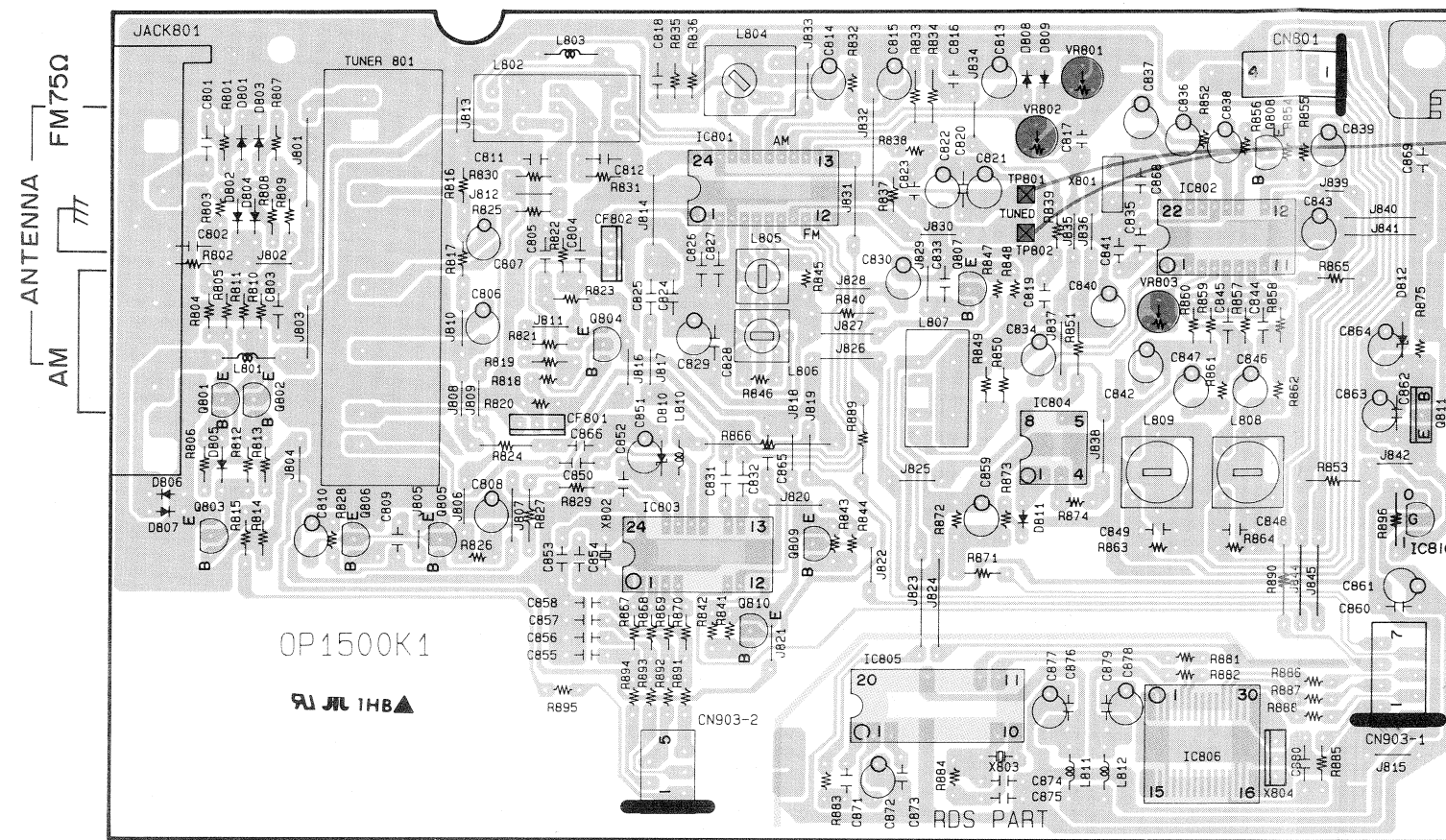
System connections/Raccordements du système/System-Anschlusse



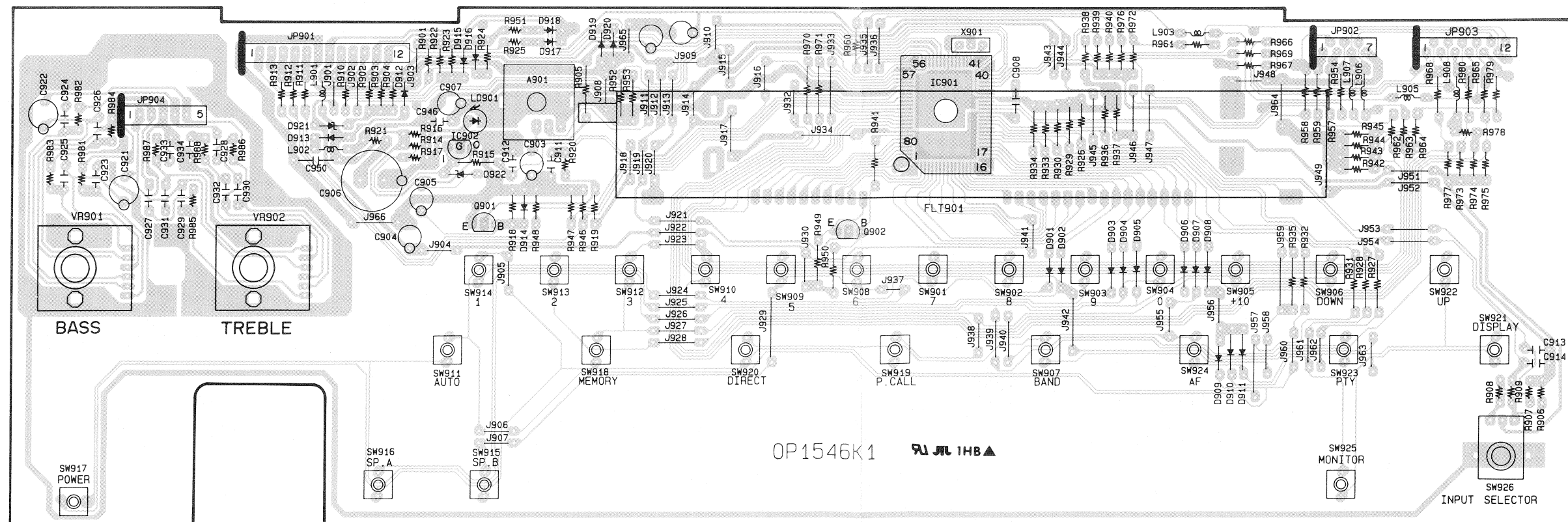
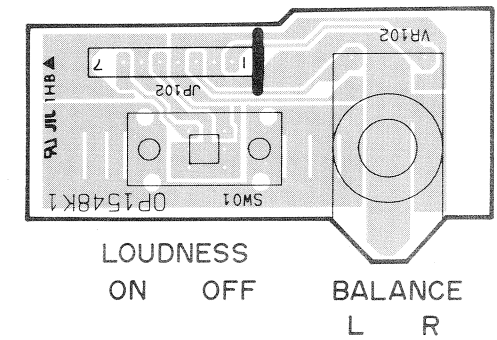
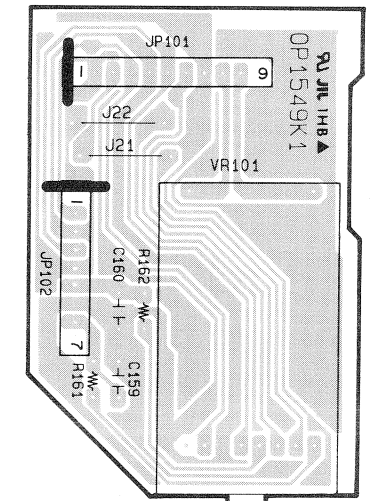
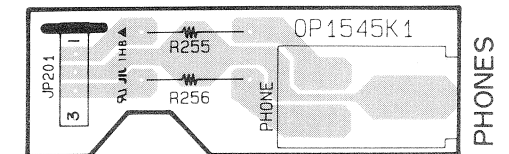
WIRING DIAGRAM



PC BOARD (COMPONENT SIDE VIEW) : KR-A4060/A5060



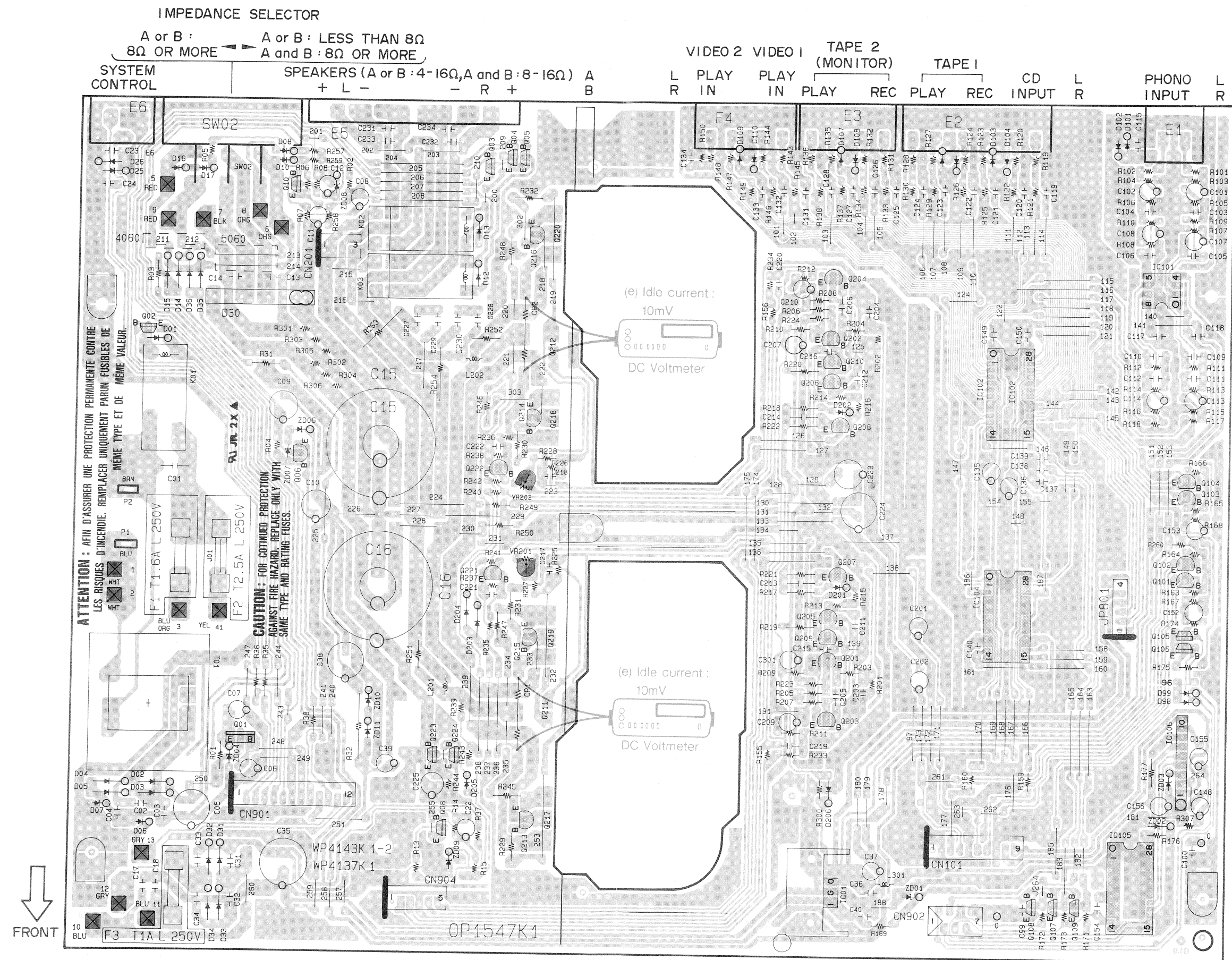
(a) Discriminator:
0V
DC voltmeter

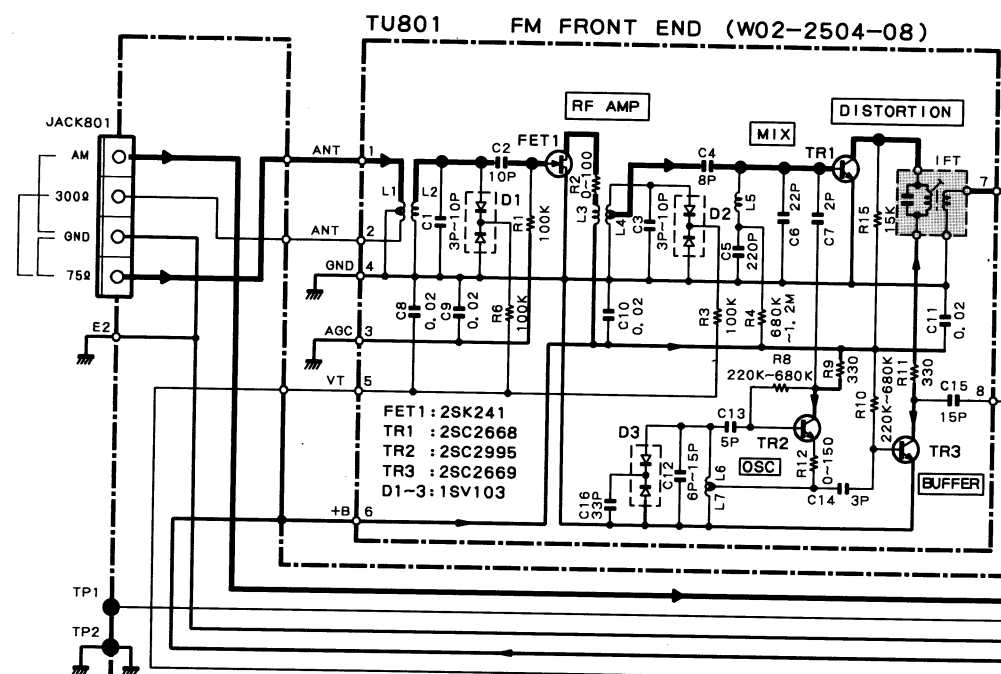


FRONT

Refer to the schematic diagram for the values of resistors and capacitors.

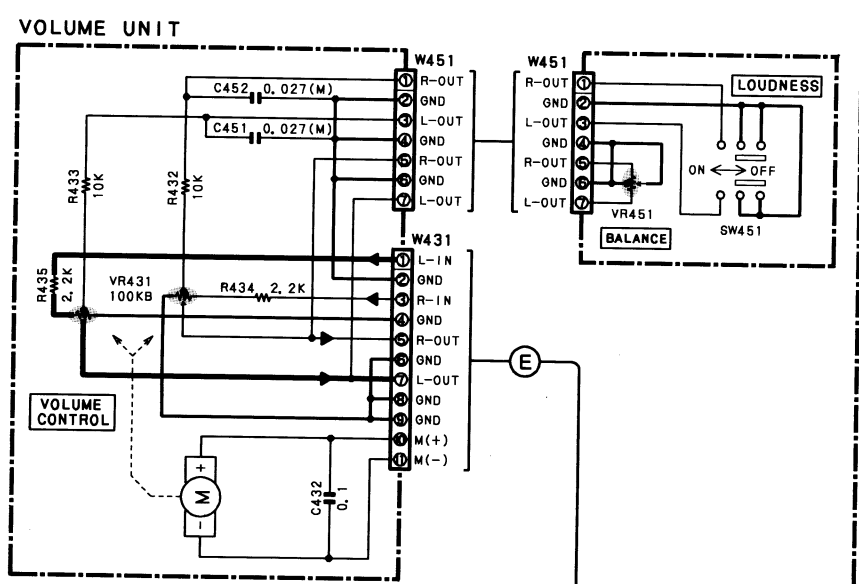
PC BOARD (COMPONENT SIDE VIEW) : KR-A4060/A5060



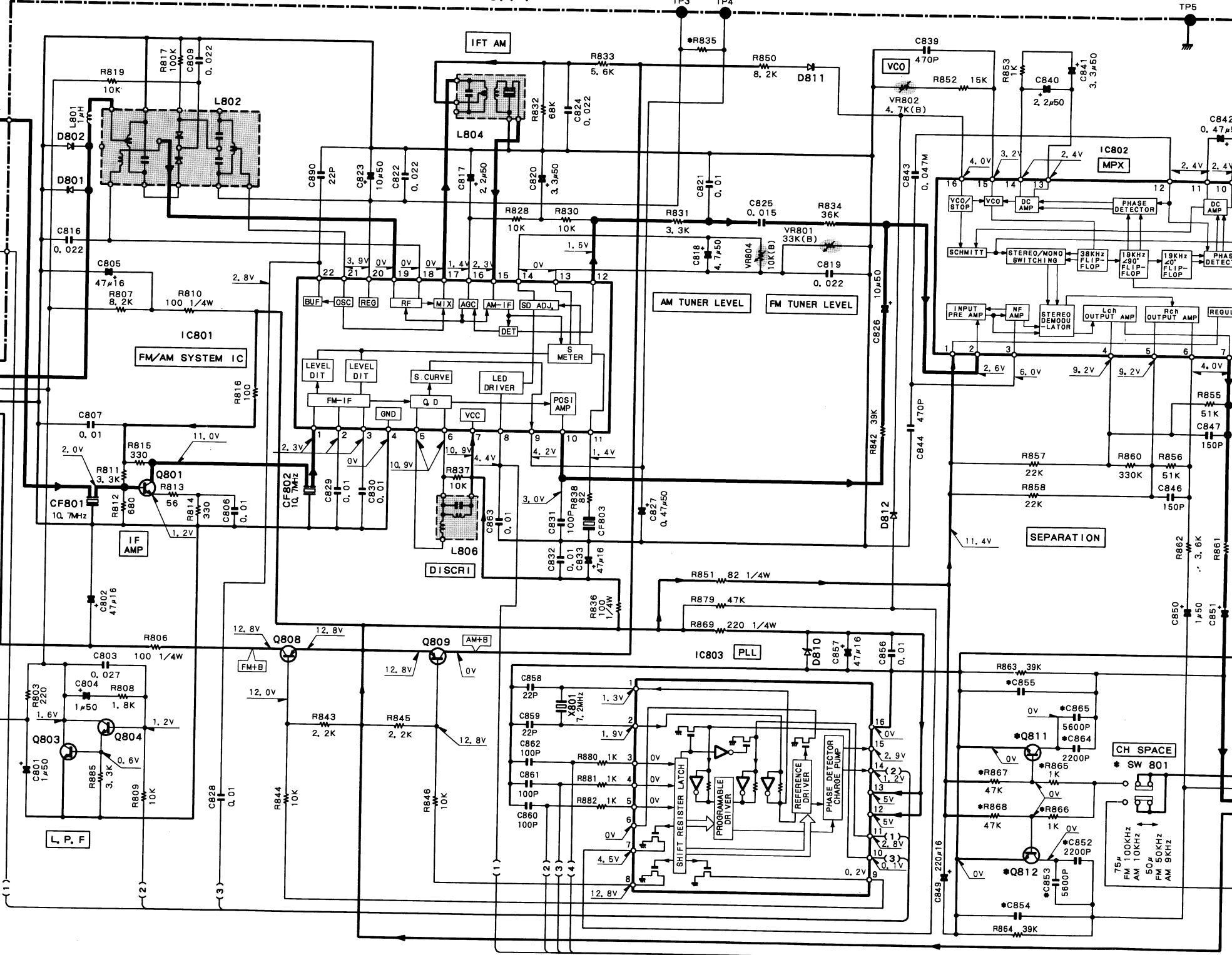


TUNER UNIT

IC801 : LA1265 Q801 : 2SC31940 D801, 802 : 1SS133
 IC802 : AN7470 Q803, 811, 812 : 2SC1740S 811, 812 : RD5, 1ES(B2)
 IC803 : LM7001 Q804 : 2SC1845F D810 : RD5, 1ES(B2)
 Q808, 809 : 2SA933S



TUNER PCB ASS Y (WP4125K1)(K, P, R) (WP4125K2)(M) (WP4125K3)(X)



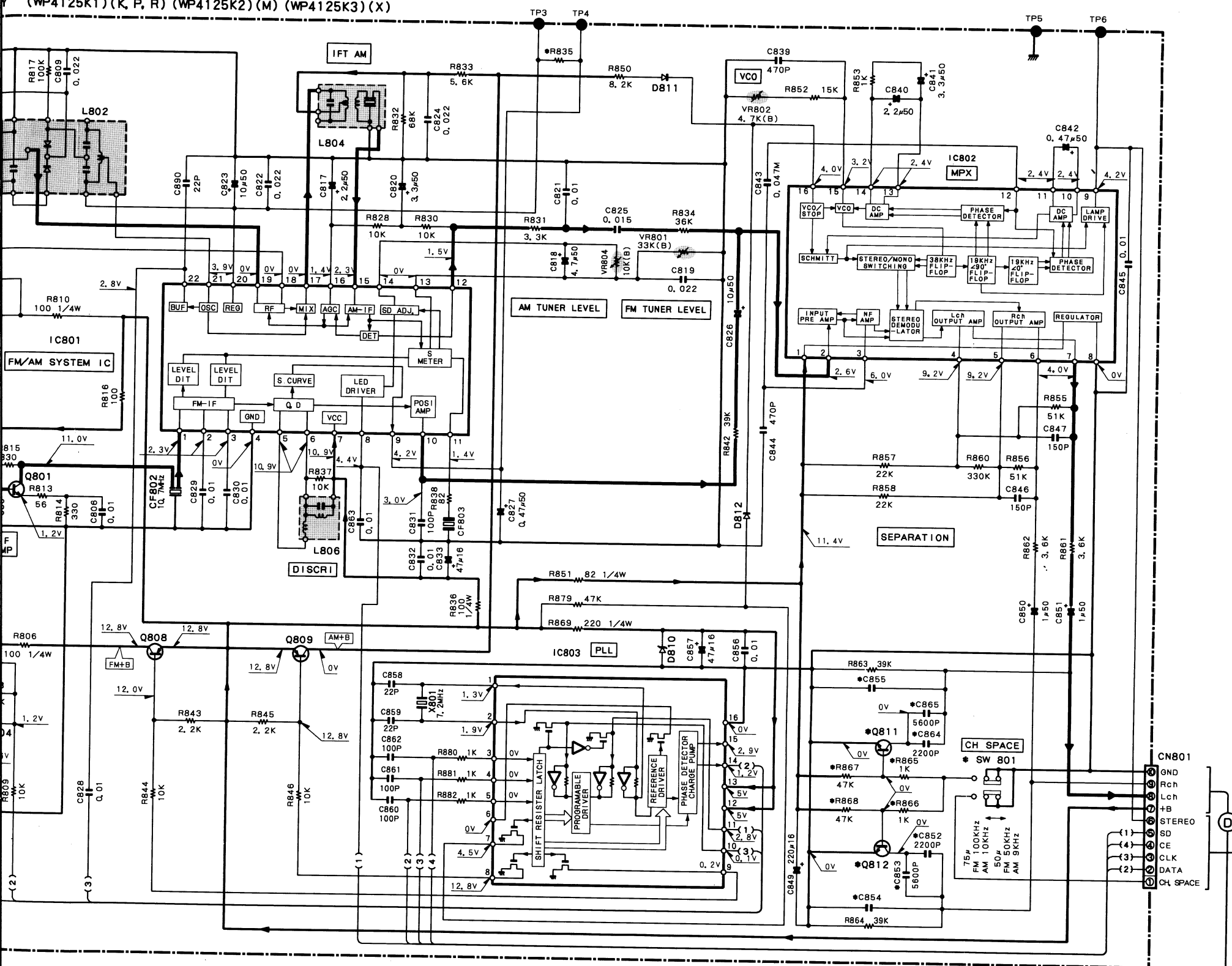
TUNER UNIT

DESTINATION		Q811	Q812	R835	R865	R866	R867	R868	SW801	C852	C853	C864	C865	C854	C855
COUNTRY	ABB.														
U. S. A.	K	NO	NO	15K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.022μF	0.022μF
CANADA	P	NO	NO	15K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.022μF	0.022μF
GENERAL MARKET	M	YES	YES	39K	YES	YES	YES	YES	YES	YES	YES	YES	YES	0.015μF	0.015μF
AUSTRALIA	X	NO	NO	39K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.015μF	0.015μF

FRONT/TONE PCB ASS Y

DESTINATION		Q903	D908	D924	R901
COUNTRY	ABB.				
U. S. A.	K	NO	NO	YES	M
CANADA	P	NO	NO	YES	M
GENERAL MARKET	M	YES	NO	NO	Y
AUSTRALIA	X	NO	YES	NO	M

(WP4125K1)(K, P, R) (WP4125K2)(M) (WP4125K3)(X)

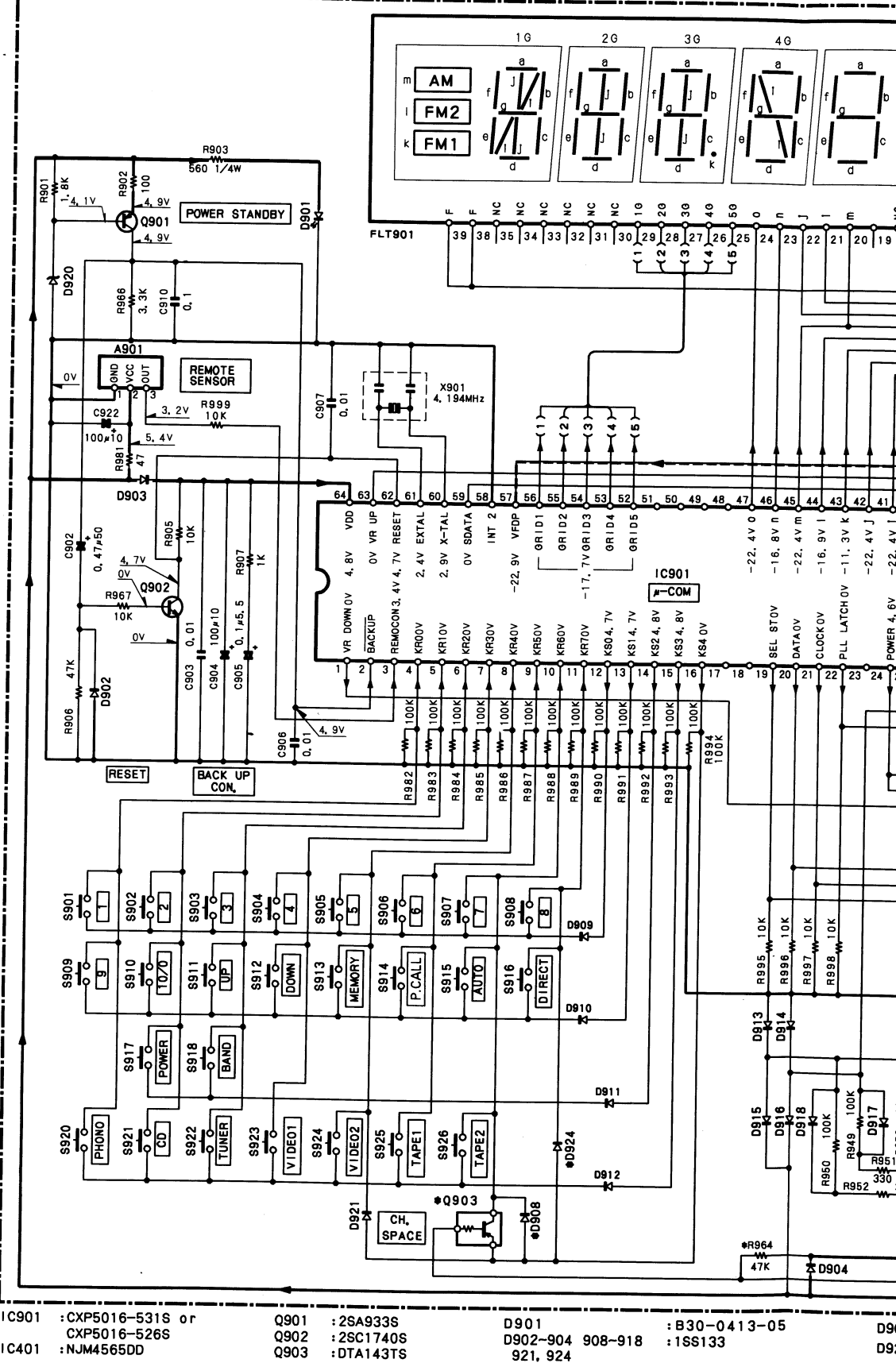


Q812	R835	R865	R866	R867	R868	SW801	C852	C853	C864	C865	C854	C855
NO	15K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.022μF	0.022μF
YES	39K	YES	YES	YES	YES	YES	YES	YES	YES	YES	0.015μF	0.015μF
NO	39K	NO	NO	NO	NO	NO	NO	NO	NO	NO	0.015μF	0.015μF

FRONT/TONE PCB ASS'Y

DESTINATION		Q903	D908	D924	R964	C908
COUNTRY	ABB.					
U. S. A.	K	NO	NO	YES	NO	YES
CANADA	P	NO	NO	YES	NO	YES
GENERAL MARKET	M	YES	NO	NO	YES	NO
AUSTRALIA	X	NO	YES	NO	NO	NO

FRONT/TONE PCB ASS'Y (WP4127K1)(K, P, R) (WP4127K2)(M) (WP4127K3)(X)



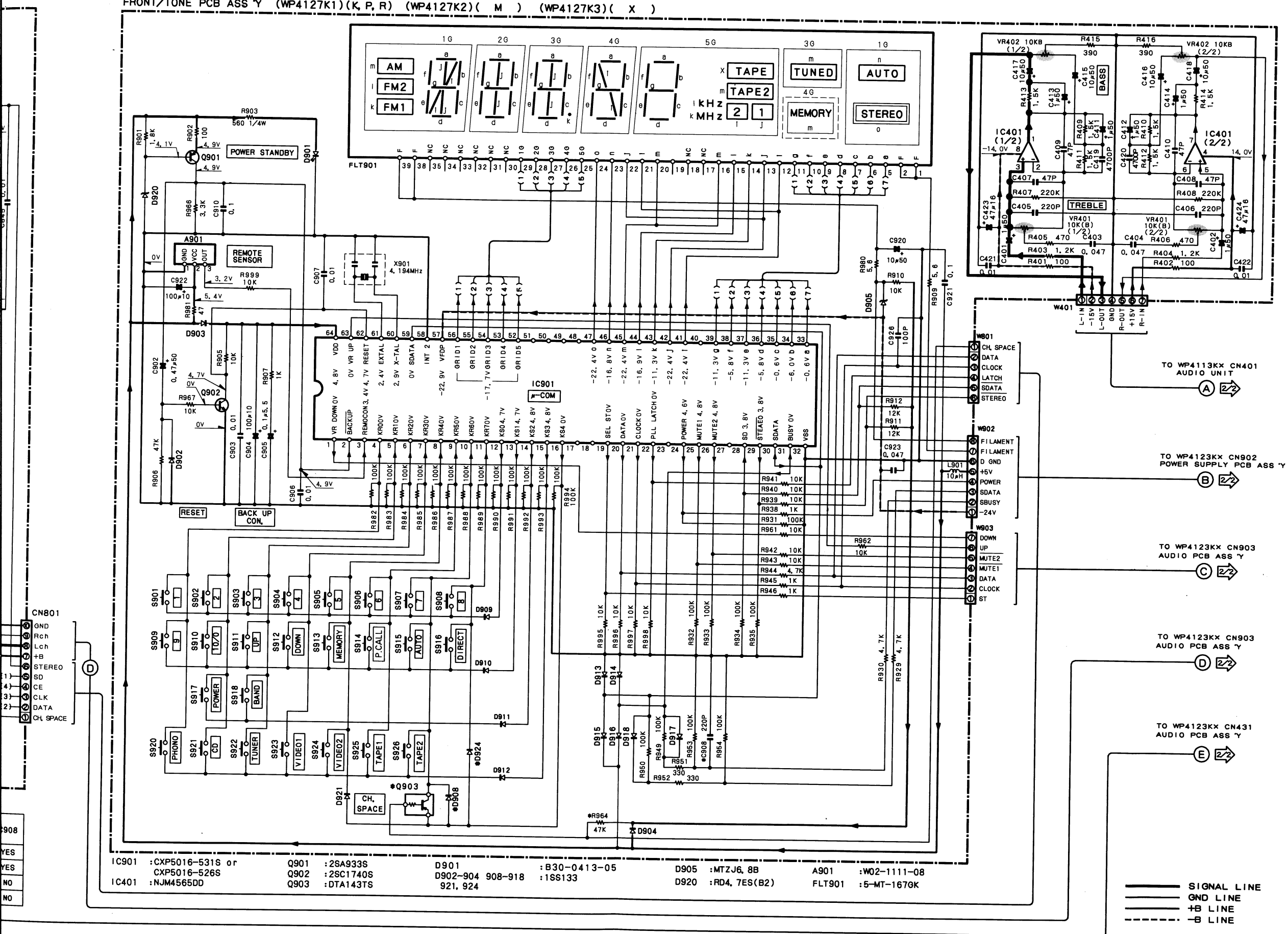
IC901 :CXPS016-531S or
CXPS016-526S
IC401 :NJM4565DD

Q901 :2SA933S
Q902 :2SC1740S
Q903 :DTA143TS

D901 :830-0413-05
D902-904 908-918 :1SS133
921, 924

D901 :830-0413-05
D902-904 908-918 :1SS133
921, 924

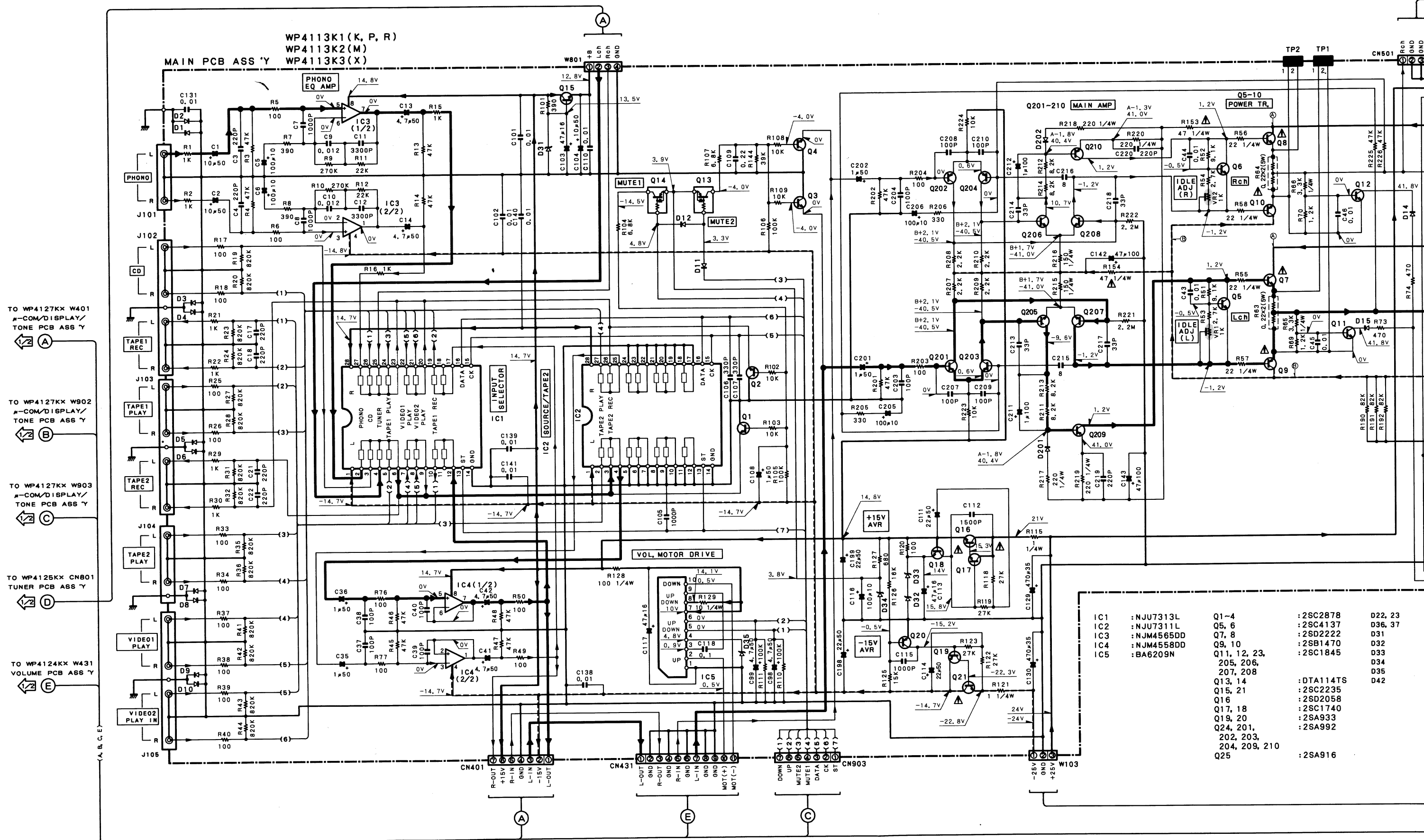
FRONT/TONE PCB ASS Y (WP4127K1)(K, P, R) (WP4127K2)(M) (WP4127K3)(X)

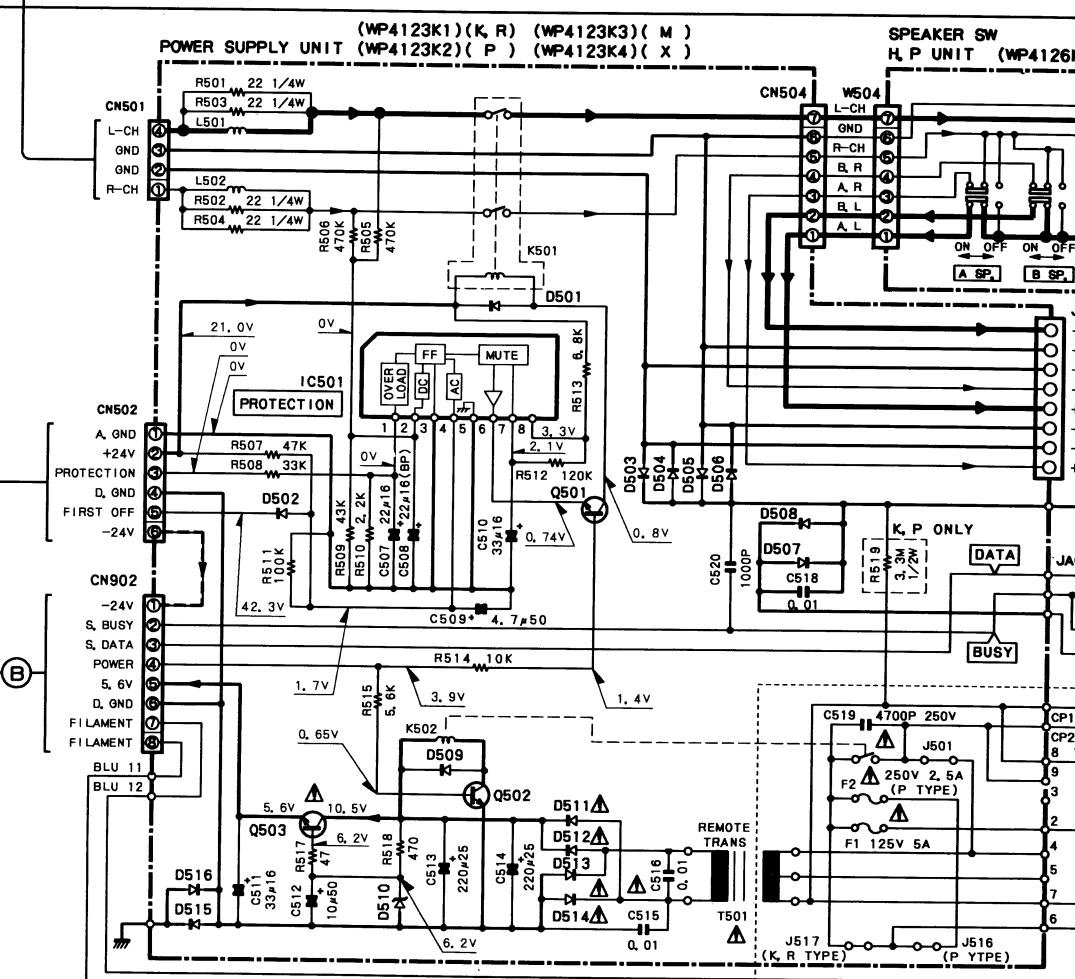


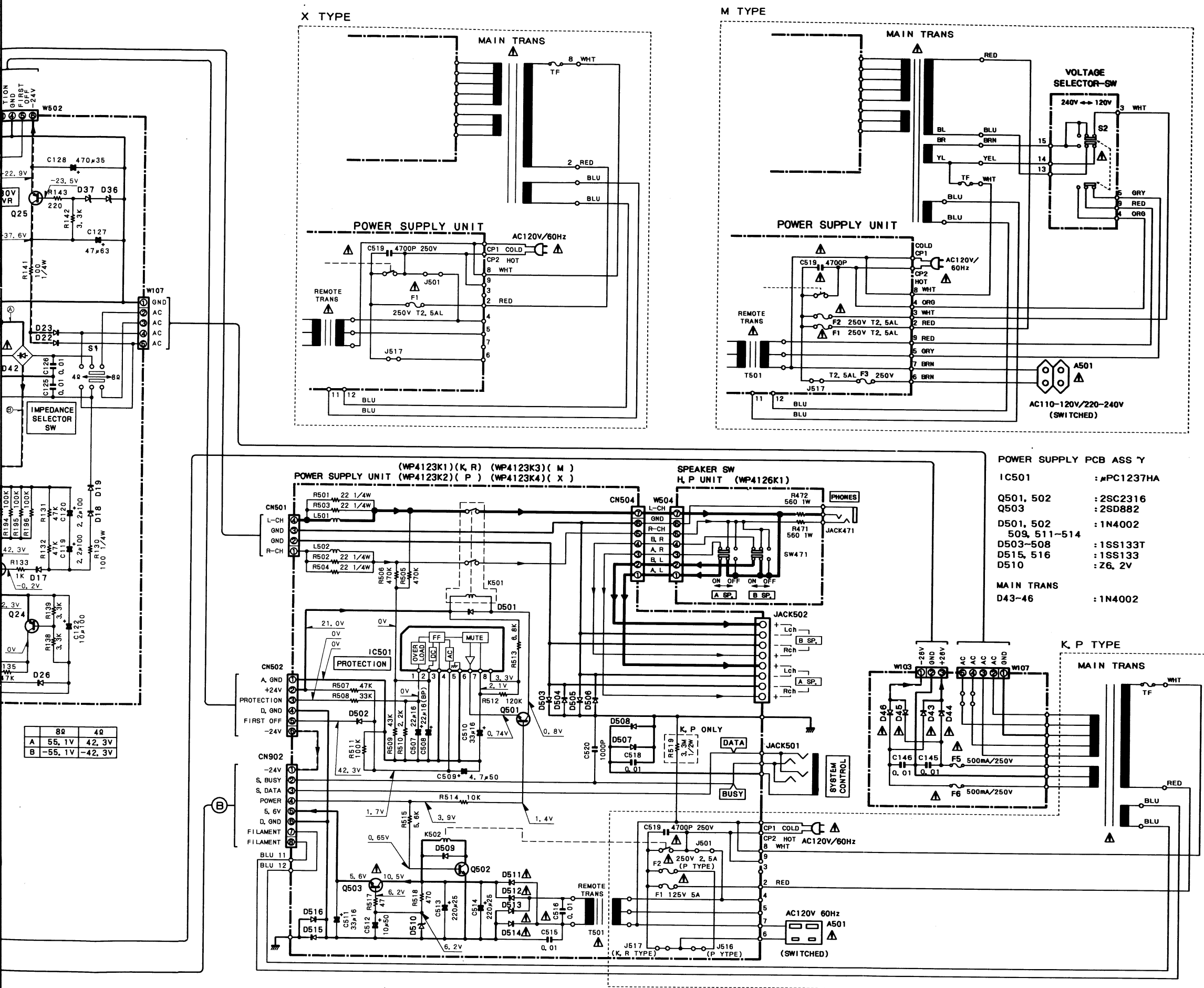
- 2SC2235Y
- 2SC2878B
- 2SD882
- DTA143TS
- 2SA933S
- 2SC1740S
- 2SC4137
- 2SB1470
- 2SD2222

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

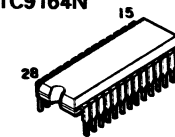
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to part list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage current or resistance measurements shall be carried out (exposed parts are acceptable insulated from the supply circuit) before the appliance is returned to the customer.



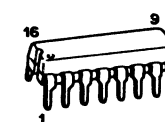




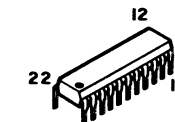
2SB1274

TC9162N
TC9164N

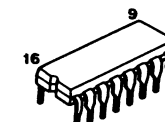
LM7001



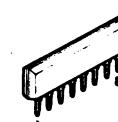
LA1265



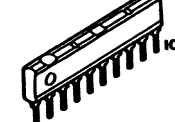
AN7470

CXP5016-526S
CXP5016-531S

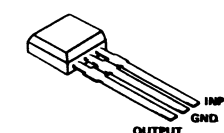
UPC1237HA



BA6209N



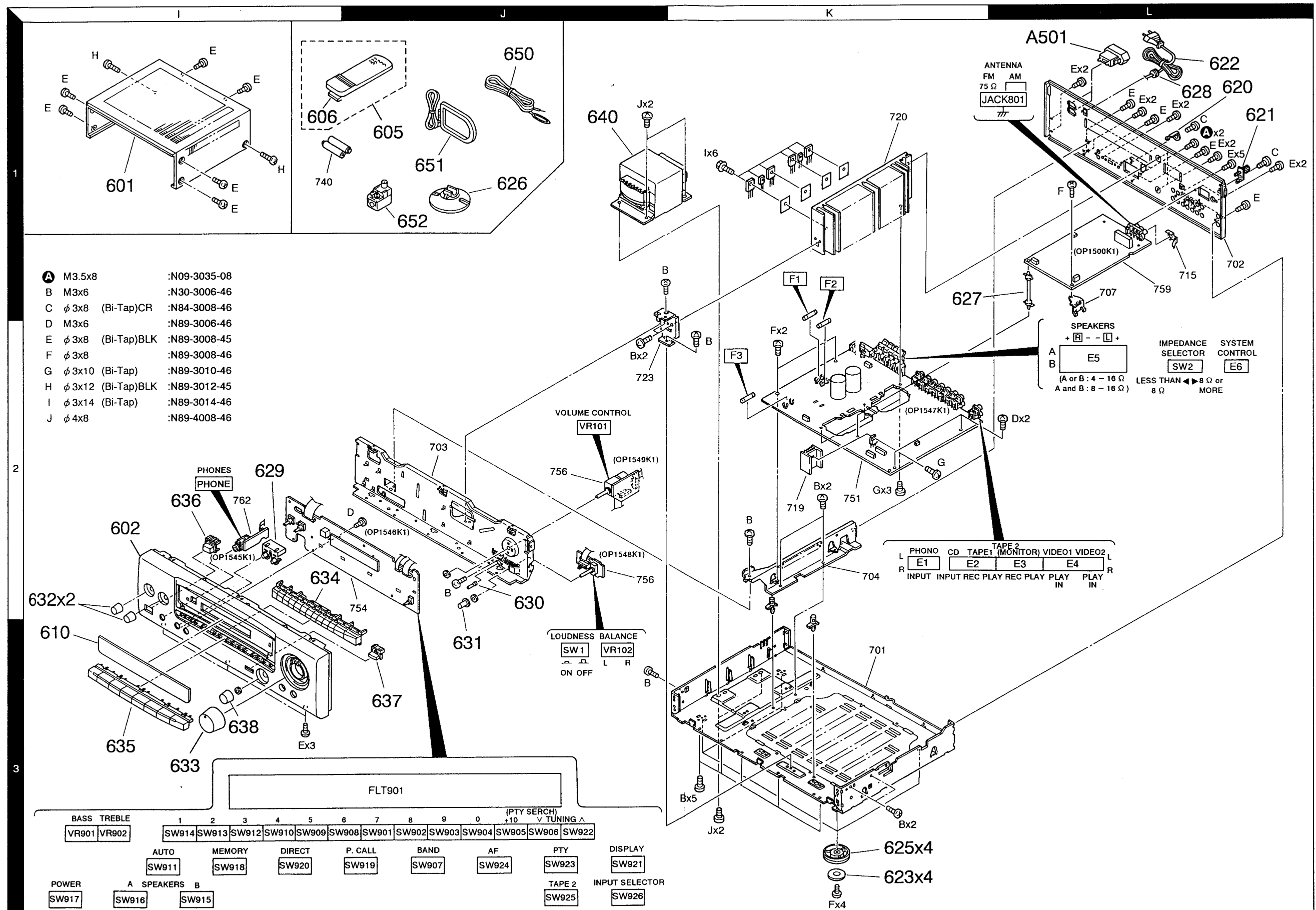
UPC78L05



- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KR-A4060/A5060 KR-A4060/A5060 EXPLODED VIEW (UNIT)



✱ New Parts
Parts without Parts No. are not supplied.
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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
KR-A4060					
601	1I	*	A01-3167-08	METALIC CABINET	E E E T
602	2I	*	A60-0633-08	FRONT PANEL	
605	1J	*	A70-0985-08	REMOTE CONTROL ASSY	
606	1I	*	A09-0170-08	BATTERY COVER	
610	3I	*	B10-2040-08	FRONT GLASS	E E E E
620	1L	*	E21-0031-08	GND TERMINAL	
-	-	*	B46-0122-23	WARRANTY CARD	
-	-	*	B46-0143-13	INSTRUCTION MANUAL (EN)	
621	-	*	B60-0580-08	INSTRUCTION MANUAL (F/G/D)	E T E T
622	1L	*	B60-0582-08	INSTRUCTION MANUAL (SP/IT)	
622	1L	*	E21-0023-08	GND TERMINAL ASSY	
622	1L	*	E30-2718-05	AC POWER CORD	
AS01	1L	*	E03-0055-05	AC OUTLET	E T E T
AS01	1L	*	E03-0133-08	AC OUTLET	
623	3K	*	G13-0267-08	CUSHION	
625	3K	*	J02-1099-08	FOOT	
626	1J	*	J19-2815-04	FOOT	E T
627	1K	*	J19-3631-08	LOOP ANTENNA HOLDER	
628	1L	*	J42-0198-08	PCB HOLDER	
629	2I	*	K29-5998-08	AC CORD BUSHING	
630	2J	*	K29-5998-08	KNØB SPEAKERS	E T
631	3J	*	K27-2166-08	KNØB LOUDNESS	
632	3I	*	K29-4444-08	KNØB BALANCE	
633	3I	*	K29-5952-08	KNØB BASS, TREBLE	
634	3I	*	K29-5953-08	KNØB VOLUME ASSY	E T E T
635	2I	*	K29-5954-08	KNØB PRESET	
636	3I	*	K29-5955-08	KNØB FUNCTION	
637	3I	*	K29-5956-08	KNØB POWER	
638	3I	*	K27-2111-08	KNØB TAPE2	E T
640	1J	*	L07-1801-08	KNØB INPUT SELECTØR	
640	1J	*	L07-1802-08	POWER TRANSFORMER	
A	1L	*	N09-3035-08	TAPTITE SCREW	
B	2J	*	N30-3006-46	PAN HEAD MACHIN. SCREW	E T
C	1L	*	N84-3008-46	BINDING HEAD TAPTITE SCREW	
D	2J	*	N89-3006-46	BINDING HEAD TAPTITE SCREW	
E	1L, 3I	*	N89-3008-45	BINDING HEAD TAPTITE SCREW	
F	2K	*	N89-3008-46	BINDING HEAD TAPTITE SCREW	E T
G	2K	*	N89-3010-46	BINDING HEAD TAPTITE SCREW	
H	1K	*	N89-3012-45	BINDING HEAD TAPTITE SCREW	
I	1K	*	N89-3014-46	BINDING HEAD TAPTITE SCREW	
650	1J	*	N89-3014-46	BINDING HEAD TAPTITE SCREW	

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651	1J		T90-0184-08	LOOP ANTENNA	
652	1J		T90-0185-05	ANTENNA ADAPTER	
ELECTRIC PARTS					
LED (LT4213 (RED))					
C1			C91-0647-05	CERAMIC	5
C2			CK45FF1H103Z	0.01UF	
C5			CE04KW1E471M	0.010UF	
C6			CE04KW1H101M	470UF	
C7			CE04KW1H101M	10UF	4
C8			CE04KW1H101M	10UF	
C9			CE04KW1H101M	10UF	
C10			CE04KW1H101M	10UF	
C11			CE04KW1H2R2M	220UF	5
C12			CE04KW1C220M	220UF	
C13			CK45FF1H473Z	0.047UF	
C14			CK45FF1H223Z	0.022UF	
C23			CK45FF1H223Z	0.022UF	5
C24			CK45FF1H223Z	0.022UF	
C31			C90-3561-05	ELECTRØ	
C32			CK45FF1H103Z	0.010UF	
C35			CK45FF1H103Z	0.010UF	5
C36			CE04KW1H4R7M	4.7UF	
C37			CE04KW1H4R7M	4.7UF	
C38			CE04KW1H4R7M	4.7UF	5
C39			CE04KW1V101M	100UF	
C40			CK45FF1H104Z	0.10UF	
C99			CK45FF1H272K	2700PF	
C100			CC45CH1H102J	1000PF	5
C101			CE04KW1H102J	1000PF	
C103			CE04KW1H102J	1000PF	
C107			CE04KW1A101M	1000PF	
C109			C92FM1H332J	3300PF	5
C111			C92FM1H123J	1200PF	
C112			CE04KW1H4R7M	4.7UF	
C115			CK45FF1H103Z	0.010UF	
C117			CK45FF1H104Z	0.010UF	5
C119			CC45CH1H221J	220PF	
C131			CC45CH1H221J	220PF	
C135			CE04KW1C470M	470UF	
C137			CE04KW1H221J	220PF	5
C138			CC45CH1H101J	1000PF	
C140			CC45CH1H102J	1000PF	
C148			CE04KW1H010M	1.0UF	
C149			CK45FF1H103Z	0.010UF	5
C152			CE04BP1H010M	NP-ELEC	
C153			CE04KW1H010M	1.0UF	
C154			CC45CH1H102J	1000PF	
C155			CE04KW1H010M	1.0UF	5
C156			CE04KW1C101M	1000PF	
C159			C92FM1H273J	2700PF	
C201			CE04KW1H4R7M	4.7UF	
C203			CC45SL1H680J	68PF	

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651	1J		T90-0184-08	LOOP ANTENNA	
652	1J		T90-0185-05	ANTENNA ADAPTER	
ELECTRIC PARTS					
LED (LT4213 (RED))					
C1			C91-0647-05	CERAMIC	5
C2			CK45FF1H103Z	0.01UF	
C5			CE04KW1E471M	0.010UF	
C6			CE04KW1H101M	470UF	
C7			CE04KW1H101M	10UF	4
C8			CE04KW1H101M	10UF	
C9			CE04KW1H101M	10UF	
C10			CE04KW1H101M	10UF	
C11			CE04KW1H2R2M	220UF	5
C12			CE04KW1C220M	220UF	
C13			CK45FF1H473Z	0.047UF	
C14			CK45FF1H223Z	0.022UF	
C23			CK45FF1H223Z	0.022UF	5
C24			CK45FF1H223Z	0.022UF	
C31			C90-3561-05	ELECTRØ	
C32			CK45FF1H103Z	0.010UF	
C35			CK45FF1H103Z	0.010UF	5
C36			CE04KW1H4R7M	4.7UF	
C37			CE04KW1H4R7M	4.7UF	
C38			CE04KW1H4R7M	4.7UF	5
C39			CE04KW1V101M	100UF	
C40			CK45FF1H104Z	0.10UF	
C99			CK45FF1H272K	2700PF	
C100			CC45CH1H102J	1000PF	5
C101			CE04KW1H102J	1000PF	
C103			CE04KW1H102J	1000PF	
C107			CE04KW1A101M	1000PF	
C109			C92FM1H332J	3300PF	5
C111			C92FM1H123J	1200PF	
C112			CE04KW1H4R7M	4.7UF	
C115			CK45FF1H103Z	0.010UF	
C117			CK45FF1H104Z	0.010UF	5
C119			CC45CH1H221J	220PF	
C131			CC45CH1H221J	220PF	
C135			CE04KW1C470M	470UF	
C137			CE04KW1H221J	220PF	5
C138			CC45CH1H101J	1000PF	
C140			CC45CH1H102J	1000PF	
C148			CE04KW1H010M	1.0UF	
C149			CK45FF1H103Z	0.010UF	5
C152			CE04BP1H010M	NP-ELEC	
C153			CE04KW1H010M	1.0UF	
C154			CC45CH1H102J	1000PF	
C155			CE04KW1H010M	1.0UF	5
C156			CE04KW1C101M	1000PF	
C159			C92FM1H273J	2700PF	
C201			CE04KW1H4R7M	4.7UF	
C203			CC45SL1H680J	68PF	

✱ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
651	1J		T90-0184-08	LOOP ANTENNA	
652	1J		T90-0185-05	ANTENNA ADAPTER	
ELECTRIC PARTS					
LED (LT4213 (RED))					
C1			C91-0647-05	CERAMIC	5
C2			CK45FF1H103Z	0.01UF	
C5			CE04KW1E471M	0.010UF	
C6			CE04KW1H101M	470UF	
C7			CE04KW1H101M	10UF	4
C8			CE04KW1H101M	10UF	
C9			CE04KW1H101M	10UF	
C10			CE04KW1H101M	10UF	
C11			CE04KW1H2R2M	220UF	5
C12			CE04KW1C220M	220UF	
C13			CK45FF1H473Z	0.047UF	
C14			CK45FF1H223Z	0.022UF	
C23			CK45FF1H223Z	0.022UF	5
C24			CK45FF1H223Z	0.022UF	
C31			C90-3561-05	ELECTRØ	
C32			CK45FF1H103Z	0.010UF	
C35			CK45FF1H103Z	0.010UF	5
C36			CE04KW1H4R7M	4.7UF	
C37			CE04KW1H4R7M	4.7UF	
C38			CE04KW1H4R7M	4.7UF	5
C39			CE04KW1V101M	100UF	
C40			CK45FF1H104Z	0.10UF	
C99			CK45FF1H272K	2700PF	
C100			CC45CH1H102J	1000PF	5
C101			CE04KW1H102J	1000PF	
C103			CE04KW1H102J	1000PF	
C107			CE04KW1A101M	1000PF	
C109			C92FM1H332J	3300PF	5
C111			C92FM1H123J	1200PF	
C112			CE04KW1H4R7M	4.7UF	
C115			CK45FF1H103Z	0.010UF	
C117			CK45FF1H104Z	0.010UF	5
C119			CC45CH1H221J	220PF	
C131			CC45CH1H221J	220PF	
C135			CE04KW1C470M	470UF	
C137			CE04KW1H221J	220PF	5
C138			CC45CH1H101J	1000PF	
C140			CC45CH1H102J	1000PF	
C148			CE04KW1H010M	1.0UF	
C149			CK45FF1H103Z	0.010UF	5
C152			CE04BP1H010M	NP-ELEC	
C153			CE04KW1H010M	1.0UF	
C154			CC45CH1H102J	1000PF	
C155			CE04KW1H010M	1.0UF	5
C156			CE04KW1C101M	1000PF	
C159			C92FM1H273J	2700PF	
C201			CE04KW1H4R7M	4.7UF	
C203			CC45SL1H680J	68PF	

✱ New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Re- marks 仕 向 備考
651	1J		T90-0184-08	LOOP ANTENNA	
652	1J		T90-0185-05	ANTENNA ADAPTER	
ELECTRIC PARTS					
LED (LT4213 (RED))					
LD901			B30-0413-05		
C1			C91-0647-05	CERAMIC	5
C2			CK45FF1H103Z	0.010UF	
C5			CE04KW1E471M	470UF	
C6			CE04KW1H100M	10UF	
C7			CE04KW1A101M	100UF	
C8			CE04KW1H010M	ELECTRØ	
C9			CE04KW1H101M	ELECTRØ	
C10			CE04KW1V101M	ELECTRØ	
C11			CE04KW1H022M	ELECTRØ	
C12			CE04KW1C220M	ELECTRØ	
C13			CK45FIH473Z	CERAMIC	4
C14			C90-0366-05	ELECTRØ	
C15			C90-3561-05	ELECTRØ	
C16			CK45FF1H103Z	CERAMIC	
C17			CE04KW1H47M	ELECTRØ	
C22			CK45FF1H223Z	CERAMIC	5
C23			CK45FF1H221J	CERAMIC	
C24			CK45FF1H103Z	CERAMIC	
C31-34			CE04KW1V102M	ELECTRØ	
C35			CK45FF1H104Z	CERAMIC	
C36			CK45FF1H272K	ELECTRØ	
C37			CE04KW1C470M	ELECTRØ	
C38			CE04KW1H221M	ELECTRØ	
C39			CE04KW1V101M	ELECTRØ	
C40			CK45FF1H104Z	CERAMIC	
C41			CK45FF1H272K	ELECTRØ	
C42			CK45FF1H102J	CERAMIC	
C43			CK45FF1H102J	CERAMIC	
C44			CK45FF1H102J	CERAMIC	
C45			CK45FF1H102J	CERAMIC	
C46			CK45FF1H102J	CERAMIC	
C47			CK45FF1H102J	CERAMIC	
C48			CK45FF1H102J	CERAMIC	
C49			CK45FF1H102J	CERAMIC	
C50			CK45FF1H102J	CERAMIC	
C51			CK45FF1H102J	CERAMIC	
C52			CK45FF1H102J	CERAMIC	
C53			CK45FF1H102J	CERAMIC	
C54			CK45FF1H102J	CERAMIC	
C55			CK45FF1H102J	CERAMIC	
C56			CK45FF1H102J	CERAMIC	
C57			CK45FF1H102J	CERAMIC	
C58			CK45FF1H102J	CERAMIC	
C59			CK45FF1H102J	CERAMIC	
C60			CK45FF1H102J	CERAMIC	
C61			CK45FF1H102J	CERAMIC	
C62			CK45FF1H102J	CERAMIC	
C63			CK45FF1H102J	CERAMIC	
C64			CK45FF1H102J	CERAMIC	
C65			CK45FF1H102J	CERAMIC	
C66			CK45FF1H102J	CERAMIC	
C67			CK45FF1H102J	CERAMIC	
C68			CK45FF1H102J	CERAMIC	
C69			CK45FF1H102J	CERAMIC	
C70			CK45FF1H102J	CERAMIC	
C71			CK45FF1H102J	CERAMIC	
C72			CK45FF1H102J	CERAMIC	
C73			CK45FF1H102J	CERAMIC	
C74			CK45FF1H102J	CERAMIC	
C75			CK45FF1H102J	CERAMIC	
C76			CK45FF1H102J	CERAMIC	
C77			CK45FF1H102J	CERAMIC	
C78			CK45FF1H102J	CERAMIC	
C79			CK45FF1H102J	CERAMIC	
C80			CK45FF1H102J	CERAMIC	
C81			CK45FF1H102J	CERAMIC	
C82			CK45FF1H102J	CERAMIC	
C83			CK45FF1H102J	CERAMIC	
C84			CK45FF1H102J	CERAMIC	
C85			CK45FF1H102J	CERAMIC	
C86			CK45FF1H102J	CERAMIC	
C87			CK45FF1H102J	CERAMIC	
C88			CK45FF1H102J	CERAMIC	
C89			CK45FF1H102J	CERAMIC	
C90			CK45FF1H102J	CERAMIC	
C91			CK45FF1H102J	CERAMIC	
C92			CK45FF1H102J	CERAMIC	
C93			CK45FF1H102J	CERAMIC	
C94			CK45FF1H102J	CERAMIC	
C95			CK45FF1H102J	CERAMIC	
C96			CK45FF1H102J	CERAMIC	
C97			CK45FF1H102J	CERAMIC	
C98			CK45FF1H102J	CERAMIC	
C99			CK45FF1H102J	CERAMIC	
C100			CK45FF1H102J	CERAMIC	
C101			CK45FF1H102J	CERAMIC	
C102			CK45FF1H102J	CERAMIC	
C103			CK45FF1H102J	CERAMIC	
C104			CK45FF1H102J	CERAMIC	
C105			CK45FF1H102J	CERAMIC	
C106			CK45FF1H102J	CERAMIC	
C107			CK45FF1H102J	CERAMIC	
C108			CK45FF1H102J	CERAMIC	
C109			CK45FF1H102J	CERAMIC	
C110			CK45FF1H102J	CERAMIC	
C111			CK45FF1H102J	CERAMIC	
C112			CK45FF1H102J	CERAMIC	
C113			CK45FF1H102J	CERAMIC	
C114			CK45FF1H102J	CERAMIC	
C115			CK45FF1H102J	CERAMIC	
C116			CK45FF1H102J	CERAMIC	
C117			CK45FF1H102J	CERAMIC	
C118			CK45FF1H102J	CERAMIC	
C119			CK45FF1H102J	CERAMIC	
C120			CK45FF1H102J	CERAMIC	
C121			CK45FF1H102J	CERAMIC	
C122			CK45FF1H102J	CERAMIC	
C123			CK45FF1H102J	CERAMIC	
C124			CK45FF1H102J	CERAMIC	
C125			CK45FF1H102J	CERAMIC	
C126			CK45FF1H102J	CERAMIC	
C127			CK45FF1H102J	CERAMIC	
C128			CK45FF1H102J	CERAMIC	
C129			CK45FF1H102J	CERAMIC	
C130			CK45FF1H102J	CERAMIC	
C131			CK45FF1H102J	CERAMIC	
C132			CK45FF1H102J	CERAMIC	
C133			CK45FF1H102J	CERAMIC	
C134			CK45FF1H102J	CERAMIC	
C135			CK45FF1H102J	CERAMIC	
C136			CK45FF1H102J	CERAMIC	
C137			CK45FF1H102J	CERAMIC	
C138			CK45FF1H102J	CERAMIC	
C139			CK45FF1H102J	CERAMIC	
C140			CK45FF1H102J	CERAMIC	
C141			CK45FF1H102J	CERAMIC	
C142			CK45FF1H102J	CERAMIC	
C143			CK45FF1H102J	CERAMIC	
C144			CK45FF1H102J	CERAMIC	
C145			CK45FF1H102J	CERAMIC	
C146			CK45FF1H102J	CERAMIC	
C147			CK45FF1H102J	CERAMIC	
C148			CK45FF1H102J	CERAMIC	
C149			CK45FF1H102J	CERAMIC	
C150			CK45FF1H102J	CERAMIC	
C151			CK45FF1H102J	CERAMIC	
C152			CK45FF1H102J	CERAMIC	
C153			CK45FF1H102J	CERAMIC	
C154			CK45FF1H102J	CERAMIC	
C155			CK45FF1H102J	CERAMIC	
C156			CK45FF1H102J	CERAMIC	
C157			CK45FF1H102J	CERAMIC	
C158			CK45FF1H102J	CERAMIC	
C159			CK45FF1H102J	CERAMIC	
C160			CK45FF1H102J	CERAMIC	
C161			CK45FF1H102J	CERAMIC	
C162			CK45FF1H102J	CERAMIC	
C163			CK45FF1H102J	CERAMIC	
C164			CK45FF1H102J	CERAMIC	
C165			CK45FF1H102J	CERAMIC	
C166			CK45FF1H102J	CERAMIC	
C167			CK45FF1H102J	CERAMIC	
C168			CK45FF1H102J	CERAMIC	
C169			CK45FF1H102J	CERAMIC	
C170			CK45FF1H102J	CERAMIC	
C171			CK45FF1H102J	CERAMIC	
C172			CK45FF1H102J	CERAMIC	
C173			CK45FF1H102J	CERAMIC	
C174			CK45FF1H102J	CERAMIC	
C175			CK45FF1H102J	CERAMIC	
C176			CK45FF1H102J	CERAMIC	
C177			CK45FF1H102J	CERAMIC	
C178			CK45FF1H102J	CERAMIC	
C179			CK45FF1H102J	CERAMIC	
C180			CK45FF1H102J	CERAMIC	
C181			CK45FF1H102J	CERAMIC	
C182			CK45FF1H102J	CERAMIC	
C183			CK45FF1H102J	CERAMIC	
C184			CK45FF1H102J	CERAMIC	
C185			CK45FF1H102J	CERAMIC	
C186			CK45FF1H102J	CERAMIC	
C187			CK45FF1H102J	CERAMIC	
C188			CK45FF1H102J	CERAMIC	
C189			CK45FF1H102J	CERAMIC	
C190			CK45FF1H102J	CERAMIC	
C191			CK45FF1H102J	CERAMIC	
C192			CK45FF1H102J	CERAMIC	
C193			CK45FF1H102J	CERAMIC	
C194			CK45FF1H102J	CERAMIC	
C195			CK45FF1H102J	CERAMIC	
C196			CK45FF1H102J	CERAMIC	
C197			CK45FF1H102J	CERAMIC	
C198			CK45FF1H102J	CERAMIC	
C199			CK45FF1H102J	CERAMIC	
C200			CK45FF1H102J	CERAMIC	
C201			CK45FF1H102J	CERAMIC	
C202			CK45FF1H102J	CERAMIC	
C203			CK45FF1H102J	CERAMIC	
C204			CK45FF1H102J	CERAMIC	
C205			CK45FF1H102J	CERAMIC	
C206			CK45FF1H102J	CERAMIC	
C207			CK45FF1H102J	CERAMIC	
C208			CK45FF1H102J	CERAMIC	
C209			CK45FF1H102J	CERAMIC	
C210			CK45FF1H102J	CERAMIC	
C211			CK45FF1H102J	CERAMIC	
C212			CK45FF1H102J	CERAMIC	
C213			CK45FF1H102J	CERAMIC	
C214			CK45FF1H102J	CERAMIC	
C215			CK45FF1H102J	CERAMIC	
C216			CK45FF1H102J	CERAMIC	
C217			CK45FF1H102J	CERAMIC	
C218			CK45FF1H102J	CERAMIC	
C219			CK45FF1H102J	CERAMIC	
C220			CK45FF1H102J	CERAMIC	
C221			CK45FF1H102J	CERAMIC	
C222			CK45FF1H102J	CERAMIC	
C223			CK45FF1H102J	CERAMIC	
C224			CK45FF1H102J	CERAMIC	
C225			CK45FF1H102J	CERAMIC	
C226			CK45FF1H102J	CERAMIC	
C227			CK45FF1H102J	CERAMIC	
C228			CK45FF1H102J	CERAMIC	
C229			CK45FF1H102J	CERAMIC	
C230			CK45FF1H102J	CERAMIC	
C231			CK45FF1H102J	CERAMIC	
C232			CK45FF1H102J	CERAMIC	
C233			CK45FF1H102J	CERAMIC	
C234			CK45FF1H102J	CERAMIC	
C235			CK45FF1H102J	CERAMIC	
C236			CK45FF1H102J	CERAMIC	
C237			CK45FF1H102J	CERAMIC	
C238			CK45FF1H102J	CERAMIC	
C239			CK45FF1H102J	CERAMIC	
C240			CK45FF1H102J	CERAMIC	
C241			CK45FF1H102J	CERAMIC	
C242			CK45FF1H102J	CERAMIC	
C243			CK45FF1H102J	CERAMIC	
C244			CK45FF1H102J	CERAMIC	
C245			CK45FF1H102J	CERAMIC	
C246			CK45FF1H102J	CERAMIC	
C247			CK45FF1H102J	CERAMIC	
C248			CK45FF1H102J	CERAMIC	
C249			CK45FF1H102J	CERAMIC	
C250			CK45FF1H102J	CERAMIC	
C251			CK45FF1H102J	CERAMIC	
C252			CK45FF1H102J	CERAMIC	
C253			CK45FF1H102J	CERAMIC	
C254			CK45FF1H102J	CERAMIC	
C255			CK45FF1H102J	CERAMIC	
C256			CK45FF1H102J	CERAMIC	
C257			CK45FF1H102J	CERAMIC	
C258			CK45FF1H102J	CERAMIC	
C259			CK45FF1H102J	CERAMIC	
C260			CK45FF1H102J	CERAMIC	
C261			CK45FF1H102J	CERAMIC	
C262			CK45FF1H102J	CERAMIC	
C263			CK45FF1H102J	CERAMIC	
C264			CK45FF1H102J	CERAMIC	
C265			CK45FF1H102J	CERAMIC	
C266			CK45FF1H102J	CERAMIC	
C267			CK45FF1H102J	CERAMIC	
C268			CK45FF1H102J	CERAMIC	
C269			CK45FF1H102J	CERAMIC	
C270			CK45FF1H102J	CERAMIC	
C271			CK45FF1H102J	CERAMIC	
C272			CK45FF1H102J	CERAMIC	
C273			CK45FF1H102J	CERAMIC	
C274			CK45FF1H102J	CERAMIC	
C275			CK45FF1H102J	CERAMIC	

✱ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
C852		CK45F1H103M	CERAMIC	
C853, 854		CK45CH1H220J	0.010UF M	
C855		CK45EB1H471K	22PF J	
C856		CK45SL1H221J	470PF K	
C857, 858		CK45CH1H101J	220PF J	
			100PF J	
C859		CE04KW1H081M	0.1UF 50WV	
C860		CK45E1H103M	CERAMIC	
C861		CE04KW1H470M	0.010UF M	
C862		CK45F1H103M	470UF 16WV	
C863, 864		CE04KW1C100M	0.010UF M	
			10UF 16WV	
C865, 866		CK45F1H103M	0.010UF M	
C868		CK45SL1H270J	0.010UF J	
C869		CK45FF1H103Z	27PF J	
C871		CK45SL1H271J	0.010UF Z	
C872		CE04KW1C100M	270PF J	
			10UF 16WV	
C873		CK45F1H103M	0.010UF M	
C874, 875		CK45SL1H270J	0.010UF J	
C876		CK45F1H103M	27PF M	
C877, 878		CE04KW1C100M	0.010UF M	
C879, 880		CK45F1H103M	10UF 16WV	
			0.010UF M	
C903, 904		CE04KW1C300M	33UF 16WV	
C905		CE04KW1H477M	ELECTRØ	
C906		C90-1827-05	4.7UF 50WV	
C907		CE04KW1A101M	BACKUP	
C908		CK45F1H103M	100UF 10WV	
			0.010UF M	
C911, 912		CK45FF1H103Z	0.010UF Z	
C913, 914		CK45FF1H223K	0.022UF K	
C921, 922		CE04KW1H477M	0.022UF J	
C923, 924		C992FM1H153J	4.7UF 50WV	
C925, 926		C992FM1H683J	0.015UF J	
			0.068UF J	
C927, 928		CK45F1H822M	0.0082UF M	
C929, 930		CK45SL1H220J	22PF J	
C931, 932		CK45CH1H101J	100PF J	
C933, 934		C992FM1H333J	0.033UF J	
C946		CK45FF1H103Z	0.010UF Z	
C950		CK45F1H103M	CERAMIC	
E1		E70-0035-08	PHONO JACK	
E2		E70-0037-08	PHONO JACK	
E3, 4		E70-0038-08	CD, TAPE1	
E5		E70-0004-08	TAPE2, VIDEO1, 2	
E6		E11-0188-05	LOCK TERMINAL BOARD SPEAKERS	
JACK801			MINIATUA PHONE JACK SYNCHRO	
PHONE			TERMINAL BOARD ANTENNA	
	2I	E11-0263-08	PHONE JACK	
F1		F05-1623-05	FUSE SENCØ T1.6A/250V	
F2	1J	F06-2021-05	FUSE SENCØ T2A/250V	
F3	1J	F05-2523-05	FUSE SENCØ T2.5A/250V	
	2J	F06-1022-05	FUSE SENCØ T1A/250V	
-		J13-0084-08	FUSE CLIP	
CF801, 802		L72-0575-08	CERAMIC FILTER	
L201, 202		L39-1303-08	INDUCTØR	
L301		L33-0379-08	INDUCTØR	
L801		L40-1091-17	SMALL FIXED INDUCTØR	
L802		L39-1322-08	CØIL	

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ET

✱ New Parts

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6

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Re- marks 備考
L803		L33-0381-08	SMALL FIXED INDUCTØR	
L804		L30-0904-08	IFT AM	
L805		L30-0905-08	IFT FM	
L806		L30-0906-08	IFT FM	
L807		L39-1323-08	CØIL	
L808, 809		L35-0070-08	CØIL	
L810		L40-1091-17	SMALL FIXED INDUCTØR	
L811, 812		L40-1001-17	SMALL FIXED INDUCTØR	
L901		L40-1001-17	SMØLL FIXED INDUCTØR	
L902, 903		L40-1091-17	SMALL FIXED INDUCTØR	
L905-908		L40-1091-17	SMALL FIXED INDUCTØR	
△ T1		L07-0825-08	TRANSFORMER	
△ T1		L07-0828-08	TRANSFORMER	
X801		L78-0616-08	RESONATØR	
X802		L77-2126-08	CRYSTAL	
X803		L77-2127-08	CRYSTAL	
X804		L78-0617-08	RESONATØR	
X901		L78-0209-05	RESONATØR	
G	2K	N89-3010-46	BINDING HEAD TAPTITE SCREW	
CP1, 2		R90-0187-05	MULTI-COMP	
R3		RD14GB2E101J	0.22X2 K	
R31		RD14GB2E101J	FL-PROOF RD 100	
R32		RS14DB30122J	FL-PROOF RS 1.2K	
R177		RD14GB2E100J	FL-PROOF RD 10	
R217-232		RD14GB2E221J	FL-PROOF RD 220	
R229-232		RD14GB2E221J	FL-PROOF RD 220	
R245-248		RD14GB2E221J	FL-PROOF RD 220	
R249		RD14GB2E101J	FL-PROOF RD 100	
R250		RD14GB2E470J	FL-PROOF RD 47	
R253, 254		RS14DB3A100J	FL-PROOF RS 10	
R255, 256		RS14DB3A561J	FL-PROOF RS 560	
R824		RD14GB2E101J	FL-PROOF RD 100	
R827		RD14GB2E101J	FL-PROOF RD 100	
R840		RD14GB2E101J	FL-PROOF RD 100	
R851		RD14GB2E470J	FL-PROOF RD 47	
R866		RD14GB30221J	FL-PROOF RD 220	
VR101		R39-0001-08	POTENTIOMETER 100KBX2	
VR102		R10-5071-08	POTENTIOMETER BALANCE	
VR201, 202		R12-1066-05	TRIM PØT. 1KB	
VR801		R12-1053-05	IDLE ADJ	
VR802		R32-0012-08	TRIM PØT. 4.7KB AM TUNE LEVEL	
VR803		R32-0012-08	TRIM PØT. 100KB FM TUNE LEVEL	
VR901, 902		R32-0012-08	TRIM PØT. 100KB SEPARATION	
		R39-0002-08	POTENTIOMETER BASS TREBLE	
K1		S76-0034-08	MAGNETIC RELAY	
K2, 3		S76-0035-08	MAGNETIC RELAY	
SW1		S68-0040-08	PUSH SWITCH	
SW2		S62-0032-08	SLIDE SWITCH	
SW901-925		S70-0030-08	TACT SWITCH	
SW926		S60-0030-08	ROTARY SWITCH	
D1		1S5133	DIØDE	
D2		1N4002A	DIØDE	
D14, 15		1N4002A	DIØDE	

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KR-A4060/A5060

PARTS LIST

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7

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
D16, 17 D25, 26 D30 D31 - 36		1SS133 1SS133 DBF40C DBF60C 1N4002A	DIODE DIODE DIODE DIODE DIODE		4 5
D6-8, 10 D101-104 D107-110 D12, 13 D201, 202		1SS133 1SS133 1SS133 1SS133 1SS133	DIODE DIODE DIODE DIODE DIODE		
D203, 204 D205, 206 D801-809 D810 D811		1N4002A 1SS133 1SS133 RDS.1ES(B2) 1SS133	DIODE DIODE DIODE ZENER DIODE DIODE		
D812 D901-920 D921 D922 D98, 99		RD13ES(B2) 1SS133 MTZJ6.2B MTZJ2.7B 1SS133	ZENER DIODE DIODE ZENER DIODE ZENER DIODE DIODE		
FLT901 IC1 IC101 IC102 IC102		10-MT-580K MC7815C NJM4558DD NJU7313L TC9164N	FLUORESCENT INDICATOR TUBE IC(VOLTAGE REGULATOR/+15) IC(OP AMP X2) IC(ANALOG SWITCH) SELECTOR SW) IC(16CH BILATERAL SELECTOR SW)		
IC104 IC104 IC105 IC105 IC106		NJU7311L TC9162N NJU7312AL TC9163N BA6209N	IC(ANALOG SWITCH)ARRAY) IC(ANALOG SWITCH ARRAY) IC(BILATERAL SWITCH X16) IC(BILATERAL SWITCH X16) IC(MOTOR DRIVER)		
IC801 IC802 IC803 IC804 IC805		LA1266 LA3401 LC7218 LM258N TDA7330A	IC(AM/FM IF) IC(FM MPX) IC(PLL SYNTHESIZER) IC IC(RDS DEMODULATOR)		
IC806 IC810 IC810 IC901 IC902		LC6543H-4600 NJM78L05A UPC78L05 UPD78044GF-021 PST529C	IC(MICROPROCESSOR) IC(VOLTAGE REGULATOR/+5V) IC(VOLTAGE REGULATOR/+5V) IC(8BIT MICROPROCESSOR) IC(SYSTEM RESET)		
IC903 Q1 Q2 - 5		NJM4558DD 2SD882 DTC114ES	IC(OP AMP X2) TRANSISTOR DIGITAL TRANSISTOR		
Q6		2SA916	TRANSISTOR		
Q8 Q10 Q101-104 Q105, 106 Q107-109		2SA933S 2SA933S 2SC2878 DTC114ES DTC114ES	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q201-204 Q205, 206 Q207, 208 Q209, 210 Q211, 212		2SA992 2SC1845 2SA992 2SC1845 2SC4137(V)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

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KR-A4060/A5060

PARTS LIST

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
Q213, 214 Q215, 216 Q217, 218 Q217, 218		2SC2316 2SA916 2SC4467 2SC4468	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		4 5
Q219, 220 Q219, 220 Q221, 222 Q223, 224 Q801		2SA1694 2SA1695 2SC1845 2SC1740S 2SC1740S	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		4 5
Q802 Q803 Q804 Q805 Q806-808		2SA933S 2SC1740S 2SC31940 2SC1845F 2SC1740S	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q809, 810 Q811 Q901, 902 ZD1 ZD2, 3		2SA933S 2SD2041E 2SC1740S MTZJ3.9B MTZJ5.1B	TRANSISTOR TRANSISTOR TRANSISTOR ZENER DIODE ZENER DIODE		
ZD4 ZD6, 7 ZD8, 9 ZD10 ZD11		RD6.2ES(B2) MTZJ16A MTZJ5.1B RD6.8ES(B2) MTZJ8.2B	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE		
A901 TUNER801		W02-1111-08 W02-1041-1S	ELECTRIC CIRCUIT MODULE FM FRONT END		

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SPECIFICATIONS

KR-A4060

Audio section

Rated power output

(IEC/NF) from 63Hz~12,500Hz

0.7% T.H.D. at 8Ω 60W + 60W

(DIN) 1,000Hz at 8Ω 60W + 60W

1,000Hz at 4Ω 55W + 55W

Total harmonic distortion (1kHz, 8Ω) 0.01% at 40W

Signal to noise ratio

Phono (MM) 56dB (DIN, 50mW output)

CD, TAPE, VIDEO 57dB (DIN, 50mW output)

Input sensitivity/impedance

Phono (MM) 2.5mV/47kΩ

CD, TAPE, VIDEO 200mV/47kΩ

Tone controls

BASS ±10dB (at 100Hz)

TREBLE ±10dB (at 10kHz)

Loudness control at 30dB

Volume level +9dB (at 100Hz)

FM tuner section

Tuning frequency range 87.5MHz~108MHz

Usable sensitivity (DIN at 75Ω)

MONO 1.1μV

STEREO 4.5μV

Total harmonic distortion at 1kHz (DIN)

MONO 0.15%

STEREO 0.5%

Signal to noise ratio (DIN weighted at 1kHz)

MONO 68dB (65.2dBf input)

STEREO 61dB (65.2dBf input)

Selectivity (DIN ±300kHz) 53dB

Stereo separation (DIN) at 1kHz 40dB

Frequency response 30Hz~15kHz, +0.5dB, -2.0dB

AM tuner section

Tuning frequency range 531kHz~1,602kHz

Usable sensitivity 12μV (400μV/m)

Total harmonic distortion 0.3%

Signal to noise ratio (at 30% mod. 1mV input) 50dB

Selectivity 30dB

General

Power consumption 120W

AC outlet (Switched) 2 : (total 200W max.)

Dimensions W : 440mm x H : 133mm X D : 350mm

Weight (net) 6.8kg

KR-A5060

Audio section

Rated power output

(IEC/NF) from 63Hz~12,500Hz

0.7% T.H.D. at 8Ω 100W + 100W

(DIN) 1,000Hz at 8Ω 100W + 100W

1,000Hz at 4Ω 90W + 90W

Total harmonic distortion (1kHz, 8Ω) 0.01% at 50W

Signal to noise ratio

Phono (MM) 56dB (DIN, 50mW output)

CD, TAPE, VIDEO 57dB (DIN, 50mW output)

Input sensitivity/impedance

Phono (MM) 2.5mV/47kΩ

CD, TAPE, VIDEO 200mV/47kΩ

Tone controls

BASS ±10dB (at 100Hz)

TREBLE ±10dB (at 10kHz)

Loudness control at 30dB

Volume level +9dB (at 100Hz)

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Tuning frequency range 87.5MHz~108MHz

Usable sensitivity (DIN at 75Ω)

MONO 1.1μV

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Stereo separation (DIN) at 1kHz 40dB

Frequency response 30Hz~15kHz, +0.5dB, -2.0dB

AM tuner section

Tuning frequency range 531kHz~1,602kHz

Usable sensitivity 12μV (400μV/m)

Total harmonic distortion 0.3%

Signal to noise ratio (at 30% mod. 1mV input) 50dB

Selectivity 30dB

General

Power consumption 180W

AC outlet (Switched) 2 : (total 200W max.)

Dimensions W : 440mm x H : 133mm X D : 350mm

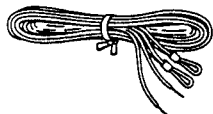
Weight (net) 8.2kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

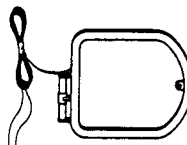
KR-A4060/A5060

ACCESSORIES

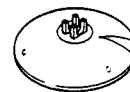
- FM indoor antenna 1
(T90-0182-05 : **Except E, T type**)
(T90-0176-05 : **E, T type**)



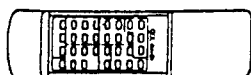
- AM loop antenna 1
(T90-0184-08)



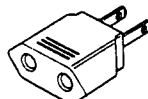
- Loop antenna holder 1
(J19-2815-04)



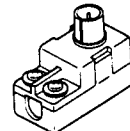
- Remote control ass'y (RC-R5030) .. 1
(A70-0985-08)



- AC plug adaptor 1
(E03-0115-05 : **Except E, T type only**)

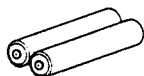


- Antenna adaptor (75Ω/300Ω) 1
(T90-0185-05 : **E, T type only**)



- Battery cover (A09-0170-08)

- Batteries (R6/AA) 2



Except for U.K., Europe and Australia.

For the unit with a European AC plug in areas other than Europe.

For U.K. and Europe.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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